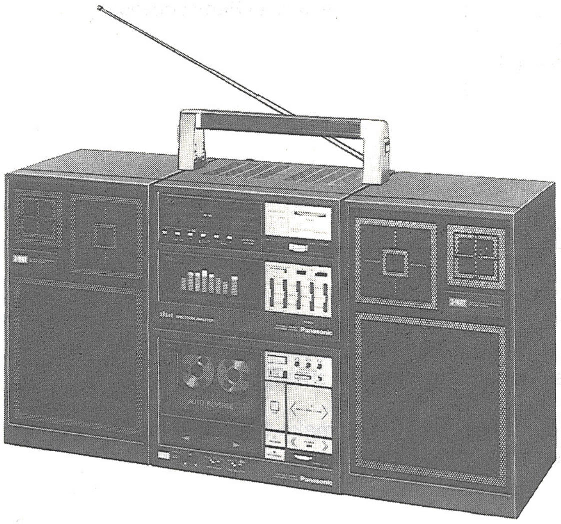
ORDER NO. GAD85032238C1
A1

Service Manual

Portable Stereo Component System

Radio Cassette
RX-C300
(Black)



This is the Service Manual
for the following areas.

M …For U.S.A.

C …For Canada.

■ SPECIFICATIONS

General:

Power Requirement:	M … AC; 110~115/115~127/200~220/230~250 V, 50/60 Hz C … AC; 120 V, 60 Hz Battery; 15 V (Ten "D" Size Flashlight Batteries) (UM-1 or equivalent) Car battery; with optional car adaptor RP-9550
Power Consumption:	60 W (AC only)
Power Output:	80 W …MPO
Speaker:	Woofer; 6½" (16 cm), PM Dynamic Speaker (5Ω) Squawker; 2½" (6.5 cm) PM Dynamic Speaker (5Ω) Tweeter; 1½"×2" (2.8 cm×4.7 cm) Ceramic Speaker (1.4 kΩ)
Input:	MIC; sensitivity 0.8 mV/applicable microphone impedance 200~600Ω, Ø3.5 PHONO; sensitivity 5 mV/47 kΩ over LINE IN/CD; sensitivity 200 mV/47 kΩ over DC IN; 13.2 V
Output:	LINE OUT; sensitivity 420 mV/4.7 kΩ under EXT SP; 5~8Ω HEADPHONES; 32Ω, Ø3.5 EXT ANTENNA and EARTH
Dimensions:	Not included handle, projecting parts and controls System 23¹⁄₁₆" (W)×12" (H)×7⁵⁄₁₆" (D) (585×305×185) mm Tuner Amplifier 8⁷⁄₁₆" (W)×5⅞" (H)×7⁵⁄₁₆" (D) (215×150×185) mm Cassette Deck 8⁷⁄₁₆" (W)×5⅞" (H)×7⁵⁄₁₆" (D) (215×150×185) mm Speaker 7⅛" (W)×12" (H)×7¹⁄₁₆" (D) (181×305×180) mm
	Max. size System 23¹⁄₁₆" (W)×15¹⁄₁₆" (H)×7¹⁵⁄₁₆" (D) (585×382×202) mm Tuner Amplifier 9" (W)×6³⁄₁₆" (H)×7¹⁵⁄₁₆" (D) (228×157×201) mm Cassette Deck 9" (W)×6³⁄₁₆" (H)×7½" (D) (228×157×190) mm Speaker 7³⁄₁₆" (W)×12¼" (H)×7½" (D) (182×311×190) mm
Weight:	10.8 kg (23 lb. 13 oz.) without batteries

Radio Section:

Radio Frequency Range:	FM; 88~108 MHz AM; 525~1610 kHz
Intermediate Frequency:	FM; 10.7 MHz AM; 455 kHz
Sensitivity:	FM; 2.5 µV/50 mW output (−3 dB Limit sens.) AM; 71 µV/m/50 mW output

Tape Deck Section:

Frequency Response:	40~15,000 Hz (with normal tape) 40~16,000 Hz (with CrO₂ tape) 40~16,000 Hz (with Metal tape)
Recording System:	AC bias, AC erase
Tape Speed:	4.8 cm/s. (1⅞ ips)
Track System:	4-track 2-channel stereo recording and playback

Weights and dimensions shown are approximate.
(Les poids et dimensions mentionnés sont approximatifs.)
Design and specifications are subject to change without notice.

DOLBY SYSTEM

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Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

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SAFETY PRECAUTIONS (For U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, sheilds, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

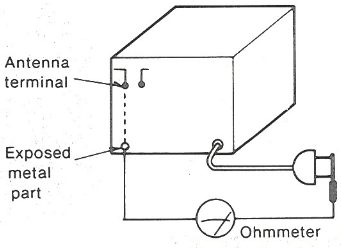


Fig. 1

Resistance = 3MΩ—5.2MΩ

INSULATION RESISTANCE TEST (For U.S.A.)

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)

   ***Note:** Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

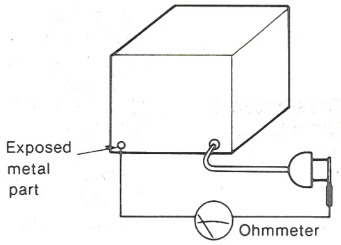
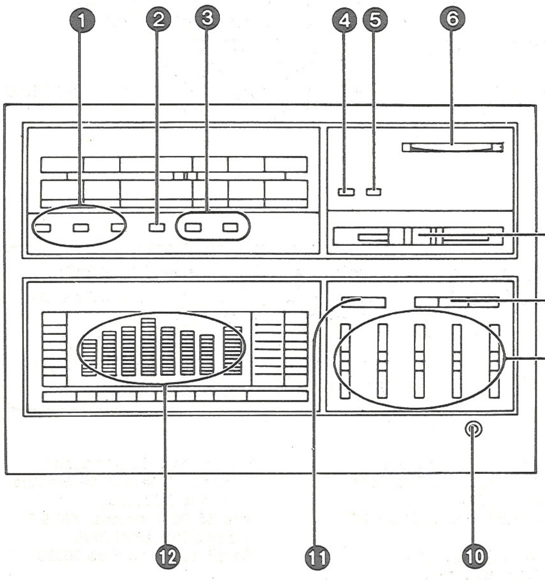
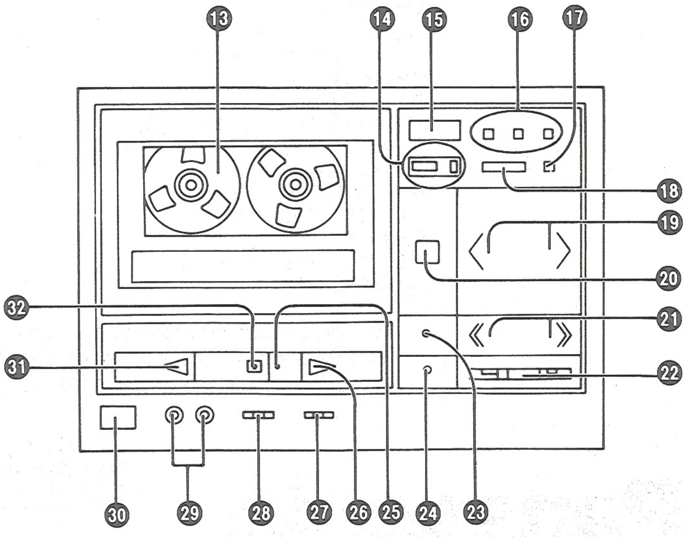


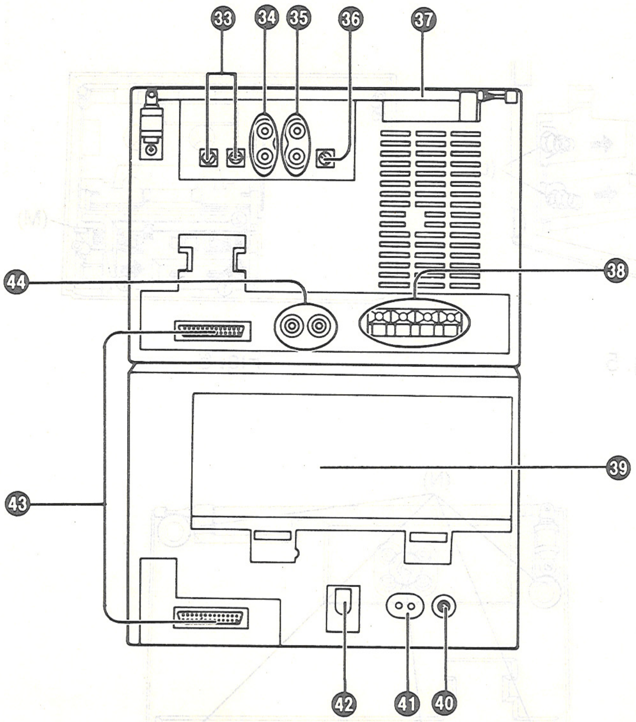
Fig. 2

Resistance = Approx ∞

LOCATION OF CONTROLS AND COMPONENTS







TUNER AMPLIFIER

- **① Function Selector (FUNCTION)**
- **② FM Mode Selector/Beat Proof Switch (FM MODE/B.P)**
- **③ Band Selector (BAND)**
- **④ FM Stereo Indicator (FM ST)**
- **⑤ Tuning Indicator (TUNING)**
- **⑥ Tuning Control (TUNING)**
- **⑦ Volume Control (VOLUME)**
- **⑧ Balance Control (BALANCE)**
- **⑨ Graphic Equalizer Controls (GRAPHIC EQUALIZER)**
- **⑩ Headphones Jack (PHONES) ⌀3.5, 32Ω**
  When using the headphones, avoid listening to sound for a long period of time and avoid excessive volume levels, which may injure your ears.
- **⑪ Spectrum Analyzer Switch (SPECTRUM ANALYZER)**
- **⑫ Spectrum Analyzer (SPECTRUM ANALYZER)**

CASSETTE DECK

- **⑬ Cassette Compartment**
- **⑭ Tape Counter and Reset Button (COUNTER)**
- **⑮ Eject Button (⏏EJECT)**
- **⑯ Reverse Mode Selector (REVERSE MODE)**
- **⑰ *Dolby Noise Reduction Switch (DOLBY NR)**
- **⑱ Blank Skip Switch (BLANK SKIP)**
- **⑲ Playback Button (〈 REV-PLAY-FWD 〉)**
- **⑳ Stop Button (□STOP)**
- **㉑ Fast Forward/Rewind Button (《 FF/REW 》)**
- **㉒ Mixing Level Control (MIXING LEVEL)**
- **㉓ Record Muting Button (○REC MUTE)**
- **㉔ Record Standby Button (● REC STANDBY)**
- **㉕ Recording Indicator (REC)**
- **㉖ Forward Indicator (FWD)**
- **㉗ Tape Selector (TAPE SELECTOR)**
- **㉘ Timer Standby Selector (TIMER STANDBY)**
- **㉙ Microphone Jacks (MIC) ⌀3.5, 0.8 mV, 200~600Ω**
  Connect the Mixing Microphone to the left channel (marked $\boxed{\text{L}}$).
- **㉚ Power Switch (POWER)**
- **㉛ Reverse Indicator (REV)**
- **㉜ Power/Battery Check Indicator (POWER/BATT)**

REAR PANELS

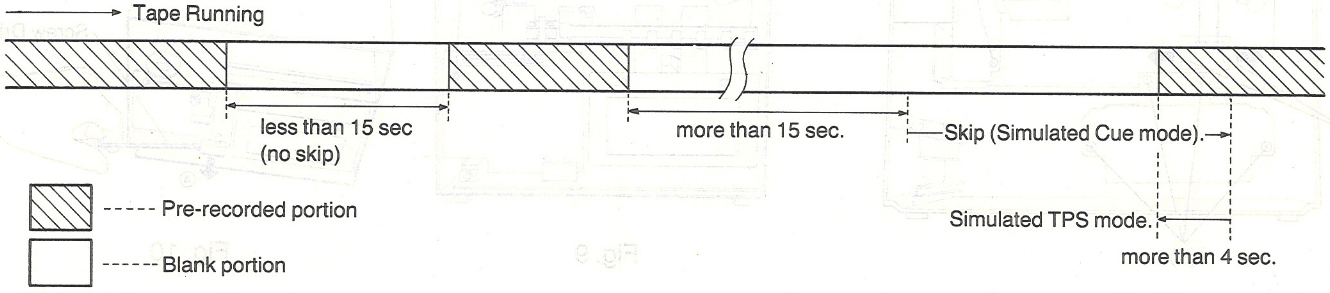
- **㉝ External Antenna Terminals (FM ANT)**
- **㉞ Line/CD Input Jacks (LINE IN/CD)**
- **㉟ Phono Input Jacks (PHONO)**
- **㊱ Phono Ground Terminal (⏚)**
- **㊲ Telescopic Antenna**
- **㊳ Speaker Terminals (SPEAKER IMP 5–8Ω)**
  Connect to the speakers with included speaker cables.
- **㊴ Battery Compartment**
- **㊵ DC Input Jack [DC IN 13.2 V (12–15 V) ⊖-◉-⊕]**
- **㊶ AC Socket (AC IN∼)**
- **㊷ Voltage Selector (VOLTAGE SELECTOR)**
  For U.S.A. only.
- **㊸ Female Connectors**
  Connect with included cables.
- **㊹ Line Output Jacks (LINE OUT)**

Blank Skip Function

Pressing the Blank Skip Switch during tape playback will set the unit to the TPS mode when a blank interval of more than 15 seconds is detected on the tape, and playback will begin from the start of the next selection.

- ●Useful for skipping over the unrecorded portion at the end of the tape during Auto-Reverse Playback.

Note:
The Blank Skip Function may not work correctly with some pre-recorded tape, such as classical music where there are many low sound levels. In this case set the Blank Skip Switch to "OFF".



DISASSEMBLY INSTRUCTIONS

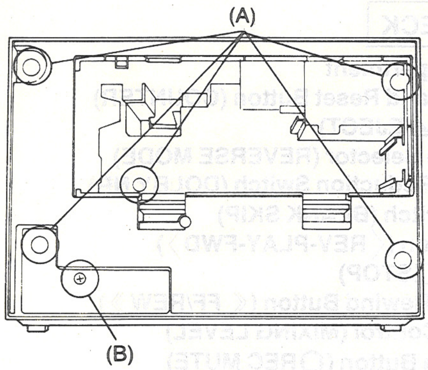


Fig. 1

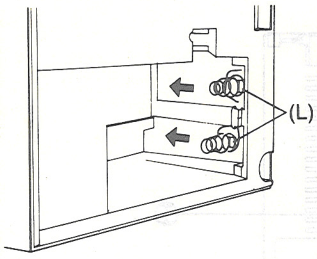


Fig. 5

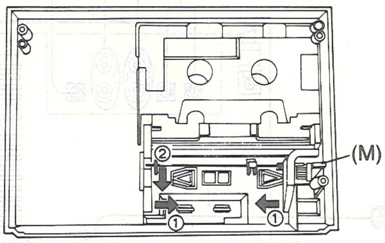
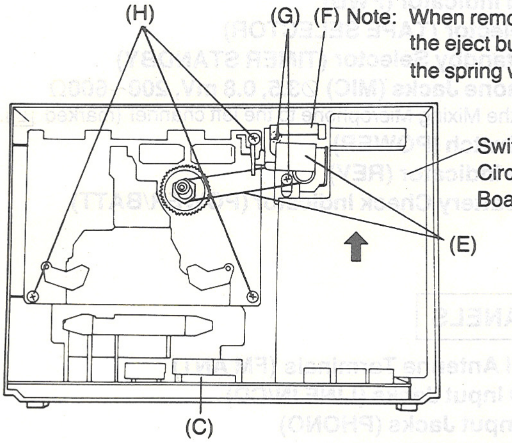


Fig. 6


(H)
(G)
(F)
Switch
Circuit
Board
(E)
(C)

Note: When removing the eject button, the spring will go out.

Fig. 2

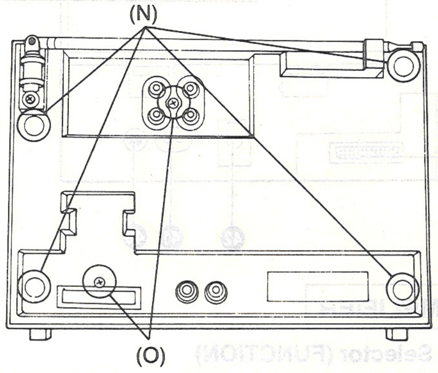


Fig. 7

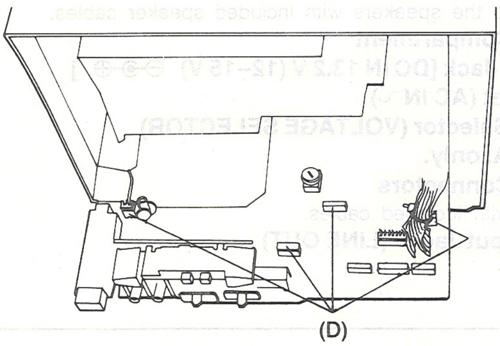


Fig. 3

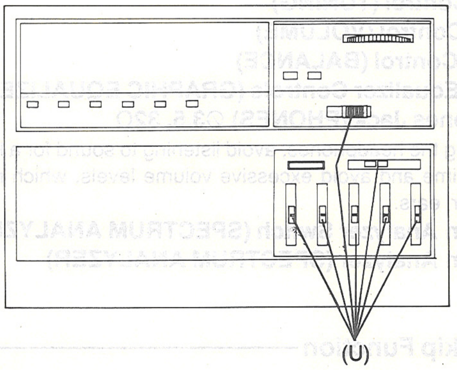


Fig. 8

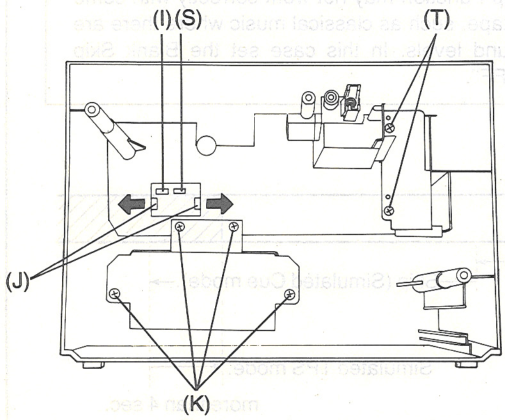


Fig. 4

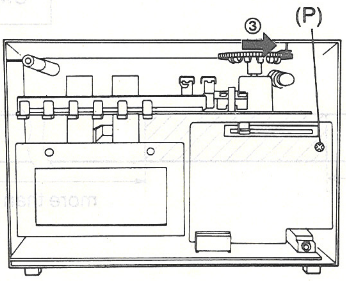


Fig. 9

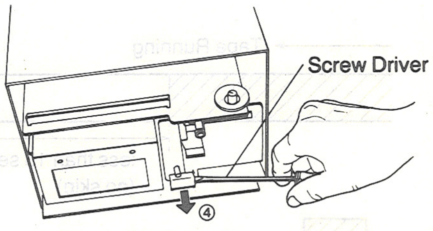

Screw Driver
④

Fig. 10

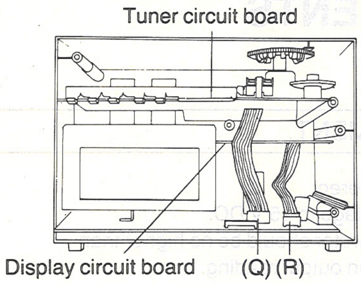


Fig. 11

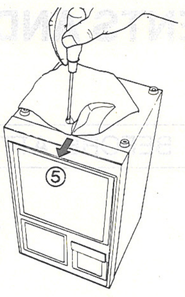


Fig. 12

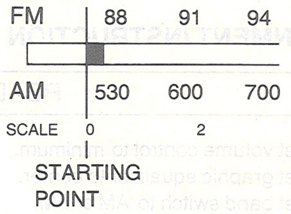


Fig. 13

Ref. No.	Shown in Fig.—.	To remove —.	Remove —.
Cassette Deck			
1	1	Front cabinet	Screw (3×65) mm .... (A)×5
2	1		Screw (3×10) mm .... (B)×1
3	——		Push the eject button.
4	——		Remove the front cabinet and mixing level knob together.
5	2	Mechanism and circuit board	Pull out the tape amplifier circuit board until it is possible to remove the switch circuit board .... (C)×1
6	2		Remove the switch circuit board in the direction of arrow.
7	3		Pull out the socket. .... (D)×4
8	2		Remove the counter and counter belt. .... (E)×2
9	2		Eject button .... (F)×1
10	2		Screw (3×12) mm .... (G)×2
11	2		Screw (3×10) mm .... (H)×3
12	——		Remove the circuit board and mechanism together.
13	4		Connector .... (S)×1
14	4	Power transformer	Pull out the socket .... (I)×1
15	4		Push the tooth and remove the circuit board. .... (J)×2
16	4		Screw (3×10) mm .... (K)×4
17	4	Battery circuit board	Screw (3×10) mm .... (T)×2
16	5		Push the tooth and remove the circuit board in the direction of arrow. .. (L)×2
17	6	Cassette holder	Pull out the gear. .... (M)×1
18	6		Push the cassette holder in the direction of arrow ①.
19	6		Remove the spring in the direction of arrow ②.
Tuner Amplifier			
1	7	Front cabinet ＊1, 2	Screw (3×65 mm) .... (N)×4
2	7		Screw (3×10 mm) .... (O)×2
3	8		Knob .... (U)×7
3	9	Tuner circuit board	Screw (3×10 mm) .... (P)×1
4	10		Remove the circuit board in the direction of arrow ④.
5	11		Socket .... (Q)×1
6	——		Pull out the tuner circuit board.
7	11	Display circuit board	Socket .... (R)×1
8	——		Pull out the display circuit board.
9	11	Speaker grille ＊3	Push the grille in the direction of arrow ⑤.

＊1. Turn the drum gear in the direction of arrow ③ as shown in fig. 9.

＊2. Set the pointer at the position as shown in fig. 13.

＊3. The speaker box is made of a relatively soft material (9-mm-thick particle board). Be careful not to tighten the screws excessively when attaching anything to the box in order not to damage the threads.

- ●If the threads are damaged, also use a bonding agent to attach the speaker box stopper to the speaker box so that the speaker box does not fall when attached to the main unit (tuner amplifier block or cassette deck block).

MEASUREMENTS AND ADJUSTMENTS

ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT.

1. Set volume control to minimum.
2. Set graphic equalizer to center.
3. Set band switch to AM or FM.
4. Set balance control to center.
5. Set mode switch to stereo.
6. Set power source voltage to 15 V DC.
7. Output of signal generator should be no higher than necessary to obtain an output reading.

MW and SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-IF ALIGNMENT						
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil	T2 (AM IFT)	Adjust for maximum output.
	MW-RF ALIGNMENT						
(2)	AM	〃	511 kHz	Tuning capacitor fully closed	〃	L7 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	1,650 kHz	Tuning capacitor fully open	〃	CT6 (AM OSC Trimmer)	〃
(4)	AM	〃	550 kHz	Tune to signal.	〃	(＊1)L4 (AM ANT Coil)	Adjust for maximum output. Adjust L4 by moving coil bobbin along ferrite core.
(5)	AM	〃	1,500 kHz	〃	〃	CT3 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).

(＊1)Cement antenna bobbin with wax after completing alignment.

FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-IF ALIGNMENT						
(1)	FM	High side thru. 0.001 μF to test point ▽7. Negative side to test point ▽4.	10.7 MHz (SWP.)	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▽6. Negative side to test point ▽5.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 6).
(2)	FM		〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 7).
	FM-RF ALIGNMENT						
(3)	FM	Connect to test point ▽3 through FM dummy antenna. Negative side to test point ▽4.	86.2 MHz	Variable capacitor fully closed	Output meter across voice coil	L3 (FM OSC Coil)	(＊2) Adjust for maximum output.
(4)	FM		109.2 MHz	Variable capacitor fully open	〃	CT2 (FM OSC Trimmer)	〃
(5)	FM		90 MHz	Tune to signal.	〃	L2 (FM ANT Coil)	〃
(6)	FM		106 MHz	〃	〃	CT1 (FM ANT Trimmer)	(＊2) Adjust for maximum output. Repeat steps (3)~(6).

(＊2) Three output responses will be present: proper tuning is the center frequency.

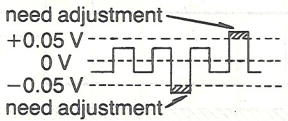
■ SEPARATION ALIGNMENT

	ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
(1)	Adjustment of pilot signal	98 MHz, 60 dB (CW) Connect to test point ▼3 through FM dummy antenna. Negative side to test point ▼4.	▼8 … (+) ▼5 … (−)	VR1	19 kHz	Adjust VR1, for 19 kHz (±150 Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

	ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
(1)	Azimuth	QZZCAC (10 kHz, −20 dB)	EXT SP	Maximum output	Azimuth screw (Refer to Fig. 2.)	Playback mode (FWD and REV Playback)
(2)	Playback level	QZZCLA (315 Hz, 0 dB)	▼9 … (Rch) ▼10 … (Lch) ▼11 … (−)	410±25 mV	VR100 (Lch) VR200 (Rch)	Playback mode Tape switch … Normal Dolby NR … OUT
(3)	Erase current	Use metal tape.	▼12 … (+) ▼13 … (−)	180^{+5}_{-10} mV	VR302	Record mode Beat proof switch→ II Tape switch→Metal
(4)	Bias current	Use normal and metal tape.	▼14 … (Lch) ▼15 … (Rch) ▼16 … (−)	Normal 4.8 ±0.2 mV Metal 8.3±1.5 mV	VR101 (Lch) VR201 (Rch)	Record mode Beat proof switch→ II Tape switch→Normal→Metal
(5)	Overall gain	Line IN f=1 kHz, −24 dB	Line OUT	Output voltage …0±1 dB	VR102 (Lch) VR202 (Rch)	1. Apply a −24 dB 1 kHz signal from the line input terminal. 2. Measure the output voltage of line output terminals. 3. Then, with the unit in the record mode and,record the signal. 4. Playback the recorded part, and measure the output voltage of line output terminals. 5. Compare the output voltage measured in items 2 and 4, and adjust so there is no difference in the level. (Adjust to obtain 0±1 dB.)

■ SPECTRUM ANALYZER ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT	SPECIFICATION	REMARKS
Limit voltage adjustment	Do not supply any audio signal.	IC204—Pin ④ to ⑦…(+) CS2—Pin ④…(−)	VR600	less than ±0.05 V need adjustment +0.05 V 0 V −0.05 V need adjustment 	Use oscilloscope.
Total level indicator adjustment	Line In (1 kHz, −14 dB)	Total level indicator Refer to Fig. 1.	VR602	The red segments are not indicated.	Set graphic equalizer to center.

■ TAPE SPEED ADJUSTMENT

COUNTER	ADJUSTMENT
Connect to earphone jack	1. Play back test tape (QZZCWAT, 3 kHz). 2. Adjust VR until 3000 Hz±90 Hz is read on the counter.

CAUTION (Refer to Fig. 9.)

Observe the following precautions when connecting a measuring device other than the accompanying speaker to an external speaker jack or a P.C. Board.

Note:

When connecting an external measuring device to an output line, connect an electrolytic capacitor between them to cut the direct current. Also, the positive (+) and negative (−) terminals of the left and right channels must be connected independently with respect to direct current and alternating current. Be particularly careful that measuring devices connected to different channels and placed in close proximity to each other do not contact each other.

■ ALIGNMENT POINT

●Please refer to Circuit Boards and Wiring Connection Diagram which is located test point.

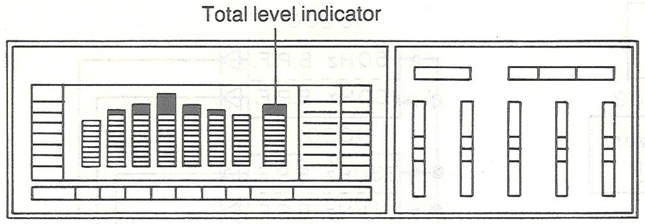

Total level indicator

Fig. 1

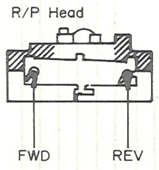

R/P Head
FWD
REV

Fig. 2

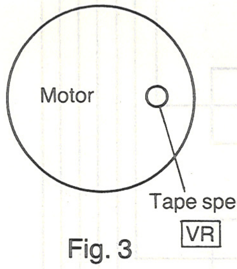

Motor
Tape speed
VR

Fig. 3

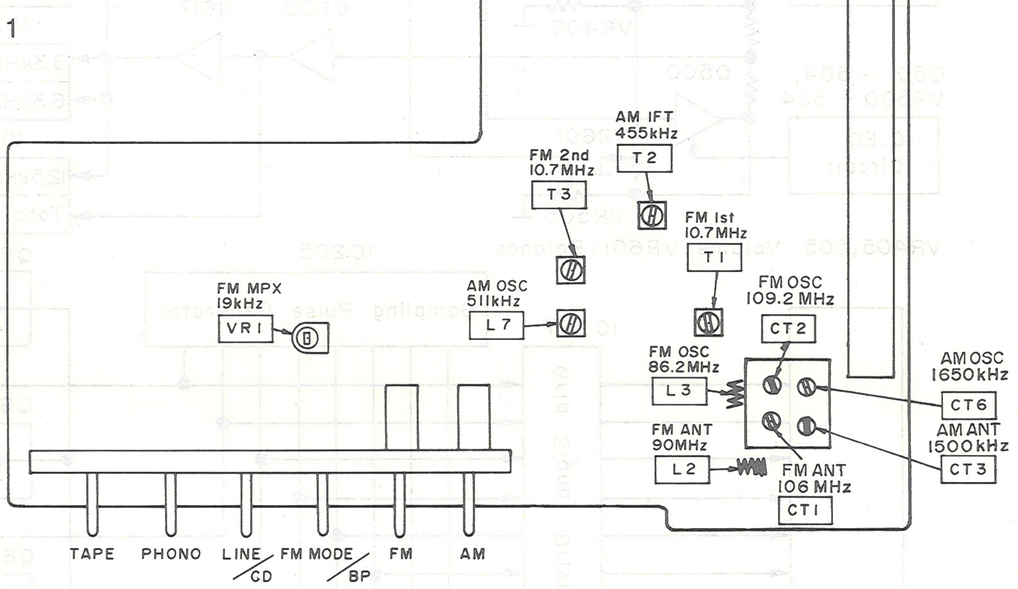

AM ANT 550kHz
L 4
AM IFT 455kHz
T 2
FM 2nd 10.7MHz
T 3
FM 1st 10.7MHz
T 1
FM MPX 19kHz
VR 1
AM OSC 511kHz
L 7
FM OSC 109.2 MHz
CT 2
FM OSC 86.2MHz
L 3
AM OSC 1650kHz
CT 6
FM ANT 90MHz
L 2
AM ANT 1500kHz
CT 3
FM ANT 106 MHz
CT 1
TAPE
PHONO
LINE/CD
FM MODE/BP
FM
AM

Fig. 4

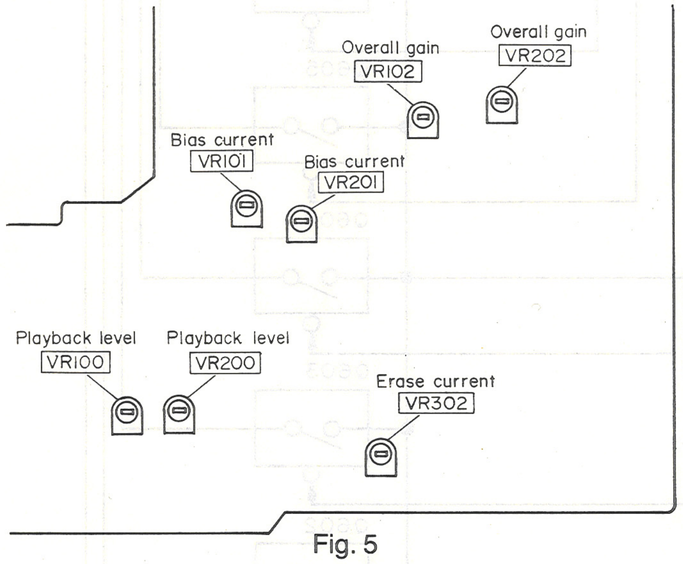

Overall gain
VR102
Overall gain
VR202
Bias current
VR101
Bias current
VR201
Playback level
VR100
Playback level
VR200
Erase current
VR302

Fig. 5

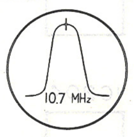


Fig. 6

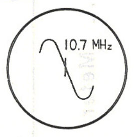


Fig. 7

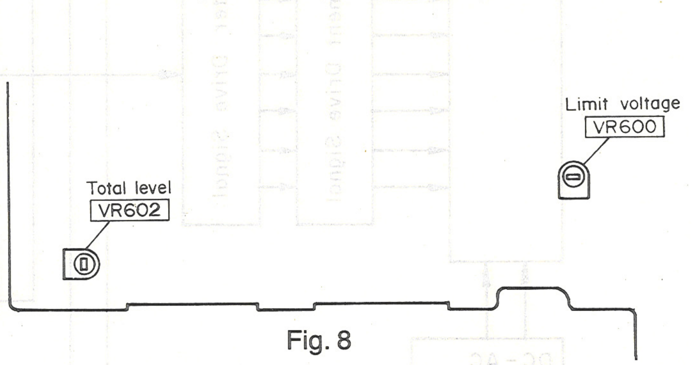
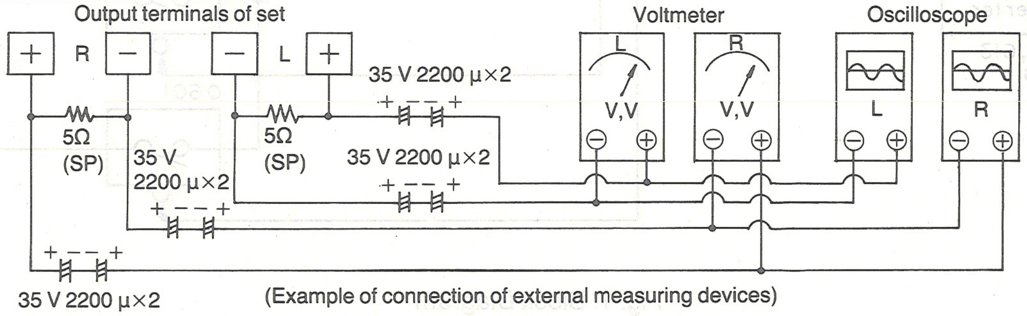

Limit voltage
VR600
Total level
VR602

Fig. 8


Output terminals of set
R
L
5Ω (SP)
5Ω (SP)
35 V 2200 μ×2
35 V 2200 μ×2
35 V 2200 μ×2
35 V 2200 μ×2
Voltmeter
V,V
V,V
Oscilloscope
L
R

(Example of connection of external measuring devices)

Fig. 9

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

Ⓓ

CIRCUIT DESCRIPTION

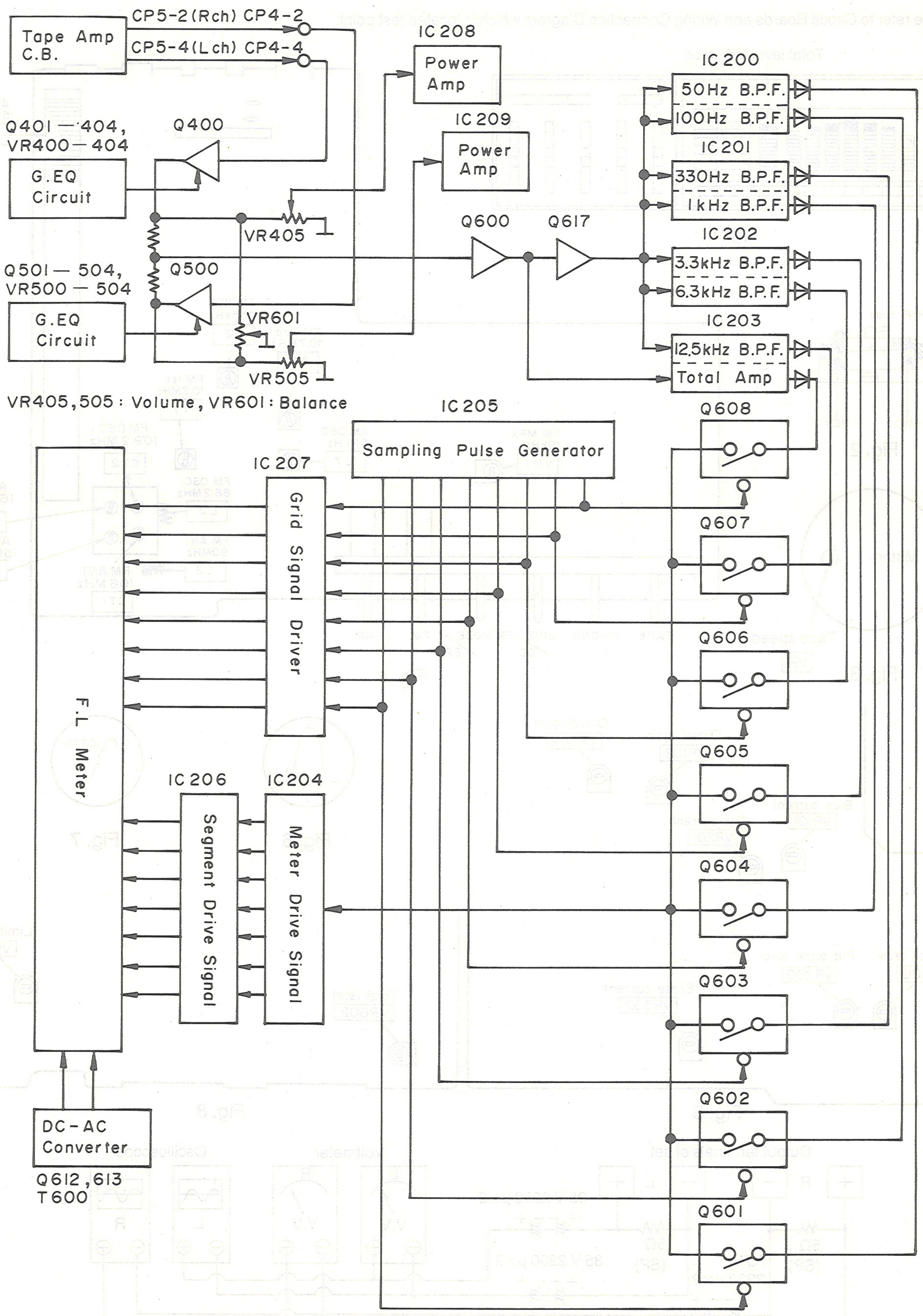

Tape Amp C.B.
CP5-2(Rch) CP4-2
CP5-4(Lch) CP4-4
IC208
Power Amp
IC209
Power Amp
Q401—404,
VR400—404
G.EQ Circuit
Q400
VR405
Q501—504,
VR500—504
G.EQ Circuit
Q500
VR601
VR505
VR405, 505: Volume, VR601: Balance
Q600
Q617
IC200
50Hz B.P.F.
100Hz B.P.F.
IC201
330Hz B.P.F.
1kHz B.P.F.
IC202
3.3kHz B.P.F.
6.3kHz B.P.F.
IC203
12.5kHz B.P.F.
Total Amp
IC205
Sampling Pulse Generator
IC207
Grid Signal Driver
F.L Meter
IC206
Segment Drive Signal
IC204
Meter Drive Signal
Q608
Q607
Q606
Q605
Q604
Q603
Q602
Q601
DC-AC Converter
Q612, 613
T600

Fig. 1. Block Diagram

Display Principle of the Spectrum Analyzer

The output signal (tape playback, line, or radio signal) from the tape amplifier circuit board passes through the power amplifier circuit and then is input to Q400 and Q500 on the graphic equalizer circuit board. The output from Q400 and Q500 is divided into two signals. One is input to the graphic equalizer circuit composed of Q401–Q405, Q501–505, VR400–409, and VR400–404, and after its 100 Hz, 330 Hz, 1 kHz, 3.3 kHz, and 12.5 kHz frequency components have been attenuated or amplified between −10 dB and +10 dB by the respective graphic equalizer controls, the signal is fed back to Q400 and Q500 and added to the original sound.

The other signal passes through the balance and volume controls and, in addition to being input to the power amplifier, it is sent through R404 and R504 to the Q600 and Q617 amplifiers as a left and right mixed signal. The output of these amplifiers is input to the IC200–IC203 band pass filter and then is passed through a smoothing circuit composed of a diode and a condenser from which it is output as a DC signal. The selective frequencies of the band pass filter are determined by the value of the CR attached to the outside of each IC.

IC Selective Frequencies

Output pin No.	IC200-8	IC200-2	IC201-8	IC201-2	IC202-8	IC202-2	IC203-8	IC203-2
Frequency (Hz)	50	100	330	1 k	3.3 k	6.3 k	12.5 k	TOTAL

Further, in IC205 208 Hz signals each with shifted phases are made and output from pins 9–16. These are then sent to the IC207 grid driver and Q601–608 sampling gates. The signal sent to IC207 is inverted and then input to grids 1–8 of the F/L meter. The signal converted to a DC signal by IC200–IC203 and their peripheral circuits is input to sampling gates Q601–Q608, and when a low signal is then input to the base of each gate, the gate closes and the signal is output to pin 4 of IC204.

The DC signal input to IC204 is converted to a seven-step meter drive signal and input to IC206, from which it is output to the F/L meter as a segment drive signal.

In addition to the above grid drive signal and segment drive signal, a 322 Hz AC voltage is applied to the F/L meter by a DC/AC converter circuit composed of Q612, Q613 and T600 and used as the power supply for the filament.

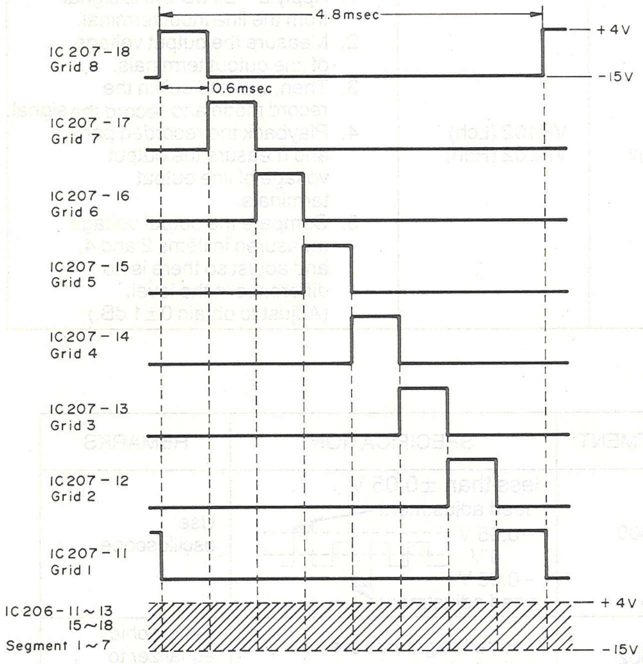


Fig. 2. Timing Chart

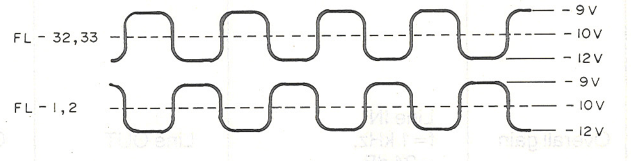


Fig. 3. "F" Signal

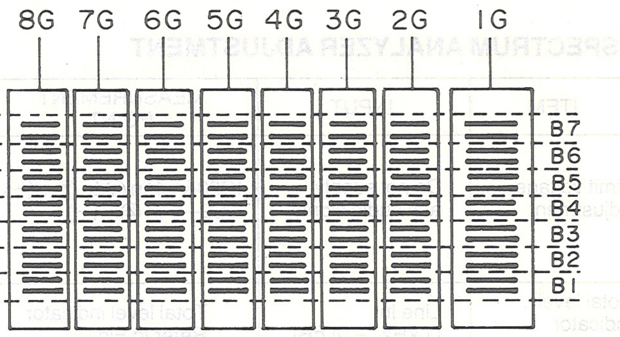

8G
7G
6G
5G
4G
3G
2G
1G
B7
B6
B5
B4
B3
B2
B1

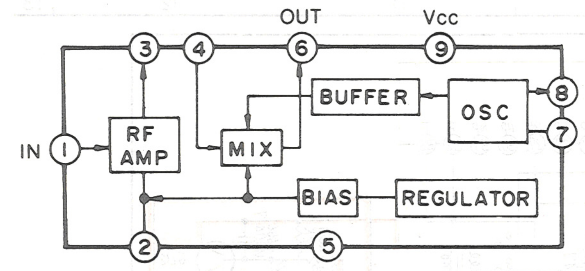
Fig. 4. FL Tube

33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
F	F	NP	NP	8 G	NC	NC	7 G	NC	NC	NC	6 G	NC	NC	5 G	NC	NC	4 G	NC	B7	3 G	B6	B5	2 G	B4	B3	B2	1 G	B1	NP	NP	F	F

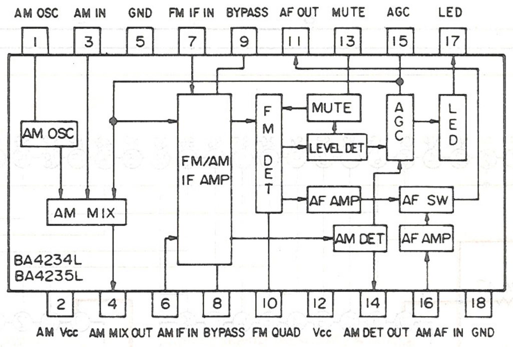
Fig. 5. FL Tube Pin Assignment

SCHEMATIC DIAGRAM (Tuner

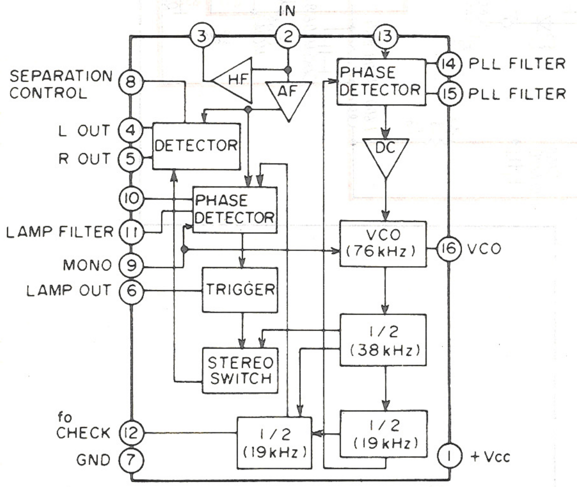
IC1 RVITA7358P


OUT
Vcc
IN
RF AMP
MIX
BUFFER
OSC
BIAS
REGULATOR
③ ④ ⑥ ⑨ ⑧ ⑦ ① ② ⑤

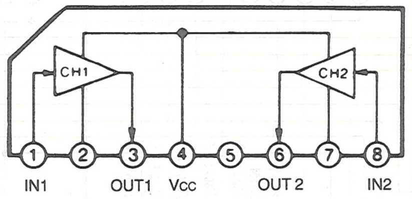
IC2 BA4234L


AM OSC
AM IN
GND
FM IF IN
BYPASS
AF OUT
MUTE
AGC
LED
AM OSC
AM MIX
FM/AM IF AMP
FM DET
MUTE
LEVEL DET
AGC
LED
AF AMP
AF SW
AM DET
AF AMP
BA4234L
BA4235L
AM Vcc
AM MIX OUT
AM IF IN
BYPASS
FM QUAD
Vcc
AM DET OUT
AM AF IN
GND

IC3 RVIBA1332L


IN
SEPARATION CONTROL
L OUT
R OUT
LAMP FILTER
MONO
LAMP OUT
fo CHECK
GND
HF
AF
DETECTOR
PHASE DETECTOR
PHASE DETECTOR
DC
TRIGGER
STEREO SWITCH
VCO (76kHz)
1/2 (38kHz)
1/2 (19kHz)
1/2 (19kHz)
PLL FILTER
PLL FILTER
VCO
+Vcc

IC4 RVIBA328MR

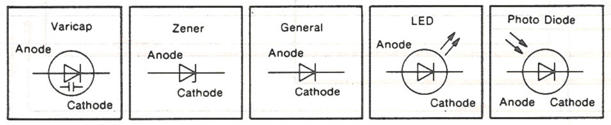

CH1
CH2
IN1
OUT1
Vcc
OUT 2
IN2

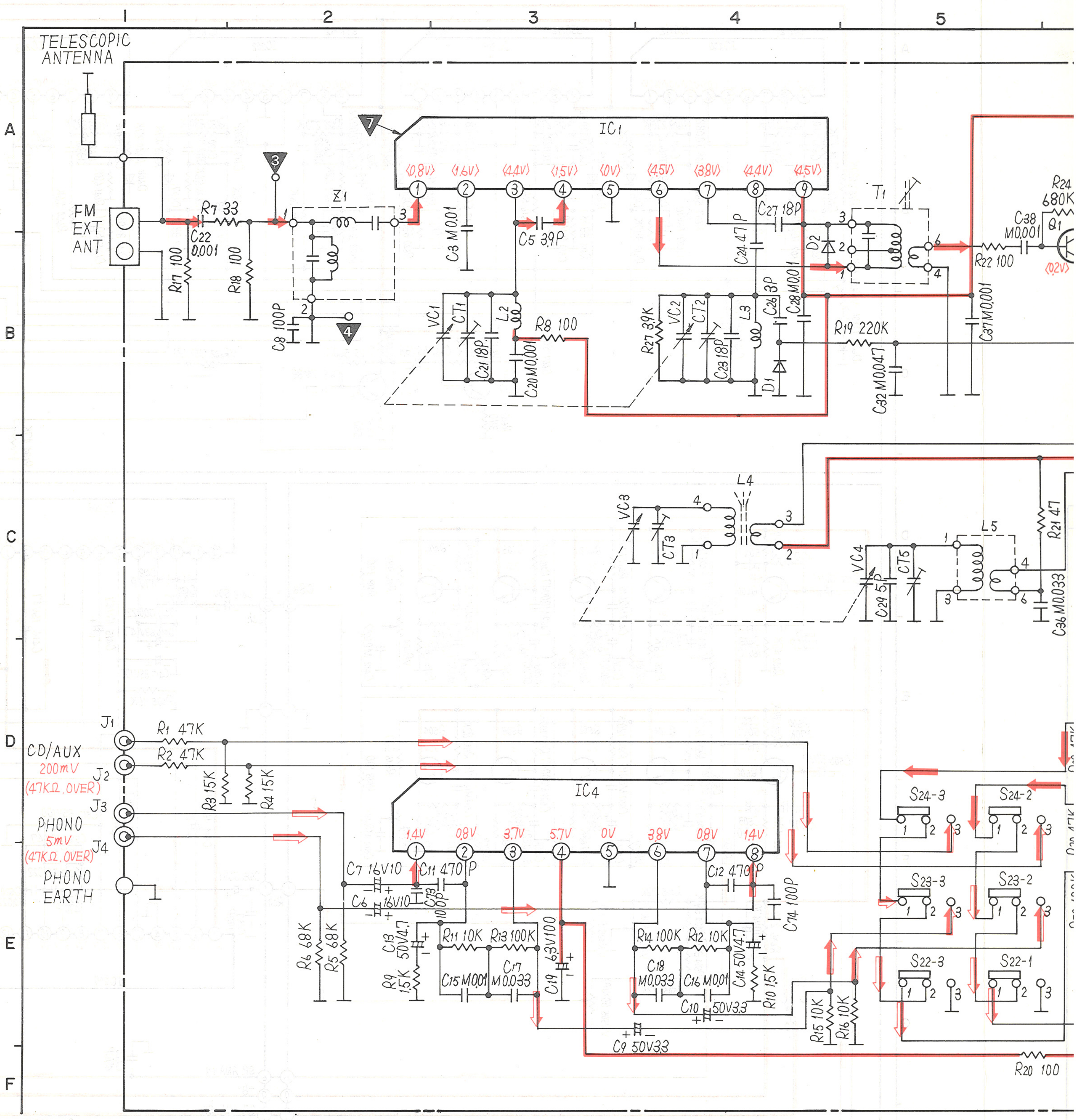
Ref No.	Zone	Part No.	Function Name
IC1	A•3	RVITA7358P	FM FRONT END
IC2	B•8	BA4234L	FM IF DET AM OSC IF
IC3	C•7	RVIBA1332L	FM MPX
IC4	D•3	RVIBA328MR	PHONO AMP
Q1	B•6	2SC1359B	FM IF AMP
Q4	D•8	2SA564R	MUTING
Q5	F•8	2SC1740R	REGULATOR
Q6	E•6	2SC1740R	BUFFER AMP
Q7	E•6	2SC1740R	BUFFER AMP
Q8	C•9	2SA564R	SWITCHING
D1	B•4	MA840B	A FC
D2	B•4	MA165	AGC
D3	B•6	MA165	SWITCHING
D4	B•8	LN021244PH	TUNING IND
D5	D•7	LN021244PH	FM ST IND
D8	E•8	RVDMTZ6R8B	ZENER
D9	E•8	MA165	SWITCHING

Notes:

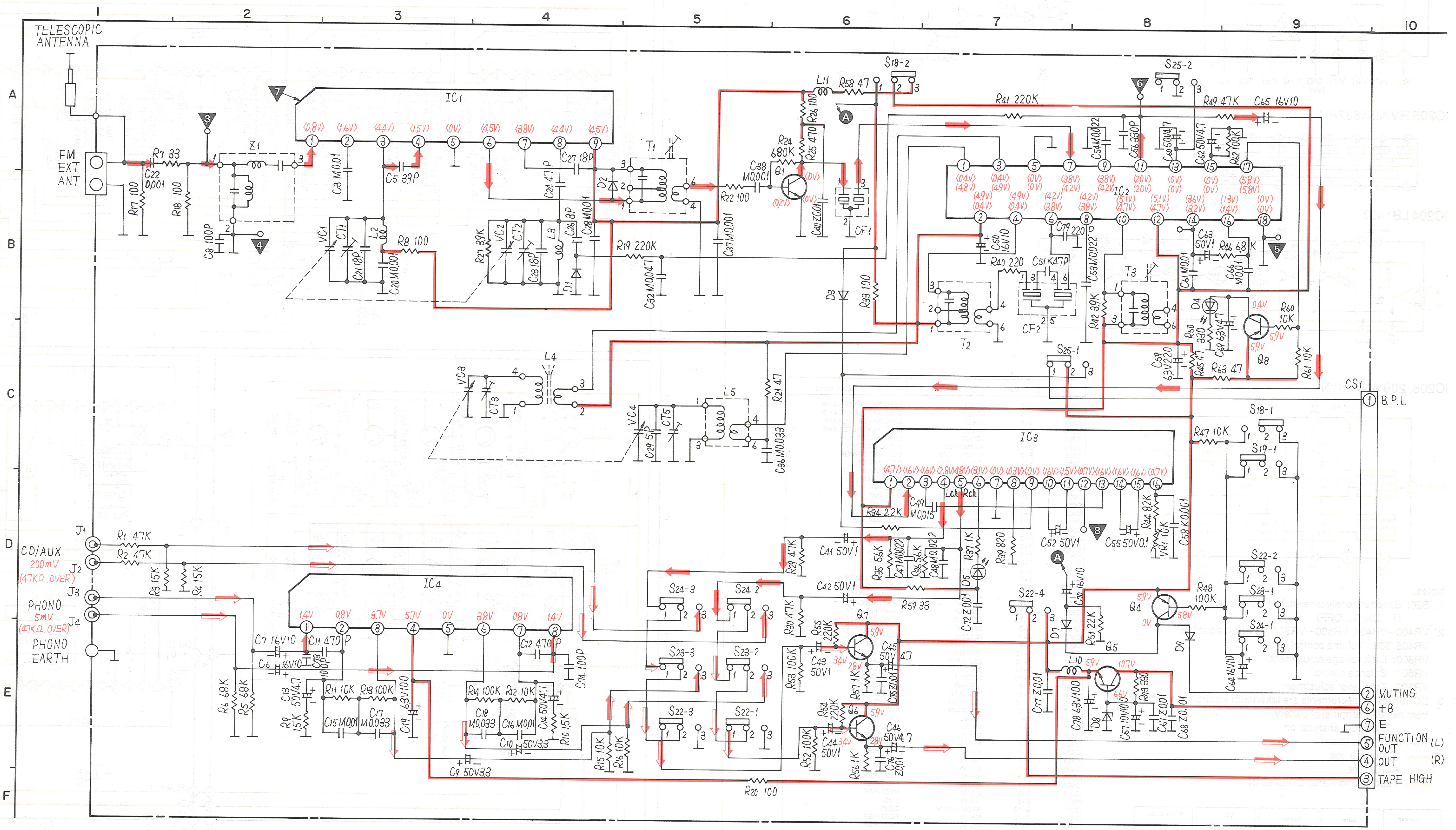
1. S18, S19: Band switch in "FM" position.
   (S18-1, S18-2…FM, S19-1…AM)
2. S22~S24: Function switch.
   (S22-1~S22-4…TAPE, S23-1~S23-3…PHONO, S24-1~S24-3…LINE/CD)
3. S25-1, S25-2: FM Mode/Beat Proof switch in "STEREO/I" position
   (1…STEREO/I, 3…MONO/II)
4. VR1: VCO adjustment.
5. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
   < >…FM, ( )…AM, No mark… Phono

⊕ Voltage Line
FM Signal Line
Tape/Phono/Radio/CD/LINE IN


Varicap
Anode
Cathode
Zener
Anode
Cathode
General
Anode
Cathode
LED
Anode
Cathode
Photo Diode
Anode
Cathode


1
2
3
4
5
A
B
C
D
E
F
TELESCOPIC ANTENNA
FM EXT ANT
IC1
(0.8V) (1.6V) (4.4V) (1.5V) (0V) (4.5V) (3.8V) (4.4V) (4.5V)
R7 33
C22 0.001
R17 100
R18 100
Z1
C3 M0.01
C5 39P
C24 47P
C27 18P
C28 M0.001
C8 100P
VC1
CT1
C21 18P
L2
C20 M0.001
R8 100
R27 39K
VC2
CT2
C23 18P
L3
C26 3P
D1
D2
T1
R19 220K
C32 M0.047
R22 100
C38 M0.001
R24 680K
Q1
C37 M0.001
(0.2V)
L4
VC3
CT3
VC4
CT5
C29 5P
L5
R21 47
C36 M0.033
J1
CD/AUX
200mV
(47KΩ OVER)
J2
R1 47K
R2 47K
R3 15K
R4 15K
J3
PHONO
5mV
(47KΩ OVER)
J4
PHONO EARTH
IC4
1.4V 0.8V 3.7V 5.7V 0V 3.8V 0.8V 1.4V
C7 16V10
C11 470P
C6 16V10
C13 100P
C12 470P
C74 100P
R6 68K
R5 68K
C13 50V4.7
R9 15K
R11 10K
R13 100K
C15 M001
C17 M0.033
C19 63V100
R14 100K
R12 10K
C18 M0.033
C16 M001
C14 50V4.7
R10 15K
C10 50V3.3
C9 50V3.3
R15 10K
R16 10K
S24-3
S24-2
S23-3
S23-2
S22-3
S22-1
R20 100

SCHEMATIC DIAGRAM (Tuner) MODEL RX-C300


TELESCOPIC ANTENNA
FM EXT ANT
CD/AUX
200mV
(47KΩ, OVER)
PHONO
5mV
(47KΩ, OVER)
PHONO EARTH
J1
J2
J3
J4
IC1
IC2
IC3
IC4
T1
T2
T3
L4
L5
L10
L11
CF1
CF2
Z1
Q1
Q4
Q5
Q6
Q7
Q8
S18-1
S18-2
S19-1
S22-1
S22-2
S22-3
S22-4
S23-1
S23-2
S23-3
S24-1
S24-2
S24-3
S25-1
S25-2
R7 33
R8 100
R17 100
R18 100
R19 220K
R22 100
R24 680K
R25 470
R26 100
R27 3.9K
R33 100
R34 2.2K
R41 220K
R49 4.7K
R58 47
R47 10K
R48 100K
R20 100
R59 33
C22 0.001
C8 100P
C5 3.9P
C27 18P
C38 M0.001
C65 16V10
VC1
VC2
VC3
VC4
CS1
B.P.L
MUTING
+B
E
FUNCTION OUT (L)
OUT (R)
TAPE HIGH
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F

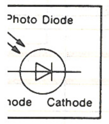
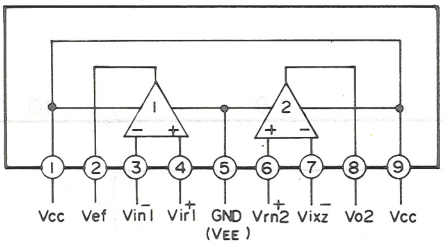
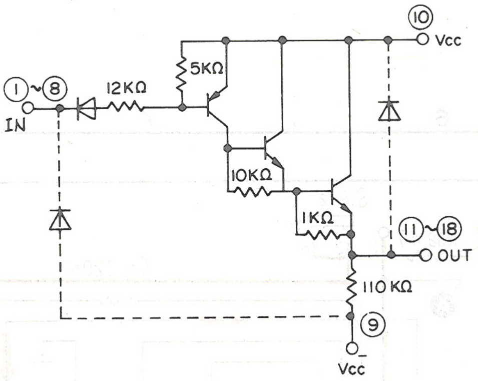


Photo Diode
node
Cathode

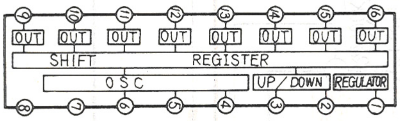
IC200~203 AN6561


1
2
1 2 3 4 5 6 7 8 9
Vcc
Vef
Vin1
Vi+r1
GND (VEE)
Vr+n2
Vi−x2
Vo2
Vcc

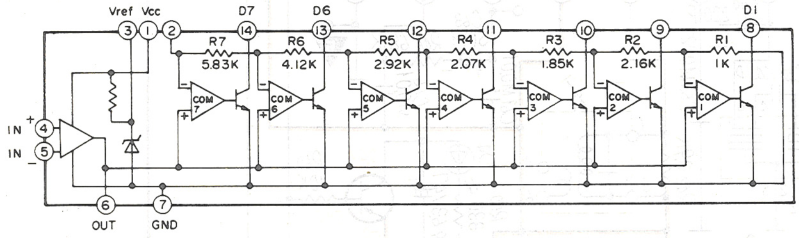
IC206, 207 RVIMSL915RS


⑩ Vcc
5KΩ
①~⑧
IN
12KΩ
10KΩ
1KΩ
⑪~⑱
OUT
110KΩ
⑨
Vcc

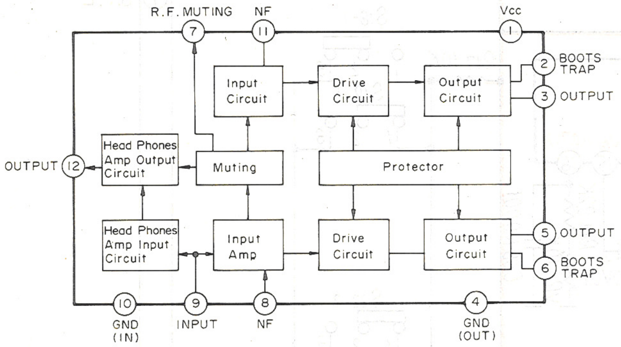
IC205 RVIM54832P-1


OUT OUT OUT OUT OUT OUT OUT OUT
SHIFT REGISTER
OSC
UP/DOWN
REGULATOR
9 10 11 12 13 14 15 16
8 7 6 5 4 3 2 1

IC204 LB1407


Vref Vcc
D7
D6
D1
③ ① ② ⑭ ⑬ ⑫ ⑪ ⑩ ⑨ ⑧
R7 5.83K
R6 4.12K
R5 2.92K
R4 2.07K
R3 1.85K
R2 2.16K
R1 1K
COM 7
COM 6
COM 5
COM 4
COM 3
COM 2
COM 1
IN + ④
IN − ⑤
⑥ OUT
⑦ GND

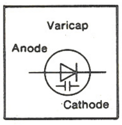
IC208, 209 AN7161N

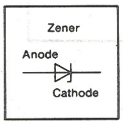

R.F. MUTING ⑦
NF ⑪
Vcc ①
② BOOTS TRAP
③ OUTPUT
Input Circuit
Drive Circuit
Output Circuit
OUTPUT ⑫
Head Phones Amp Output Circuit
Muting
Protector
Head Phones Amp Input Circuit
Input Amp
Drive Circuit
Output Circuit
⑤ OUTPUT
⑥ BOOTS TRAP
⑩ GND (IN)
⑨ INPUT
⑧ NF
④ GND (OUT)

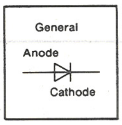
Notes:

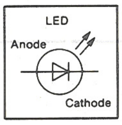
1. S26: Spectrum analyzer switch in "ON" position.
   (1…ON, 3…OFF)
2. VR400~VR404, VR500~VR504: Graphic equalizer
   VR405, 505: Volume control
   VR600: Limit voltage adjustment
   VR601: Balance control
   VR602: Total level adjustment
3. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
   < >…Spectrum analyzer on
   No mark…Tape (play)

▬ ⊕ Voltage line
- - - AC/DC line
⇒ Tape/Phono/Radio/CD/LINE IN


Varicap
Anode
Cathode


Zener
Anode
Cathode


General
Anode
Cathode


LED
Anode
Cathode

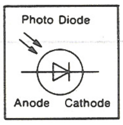
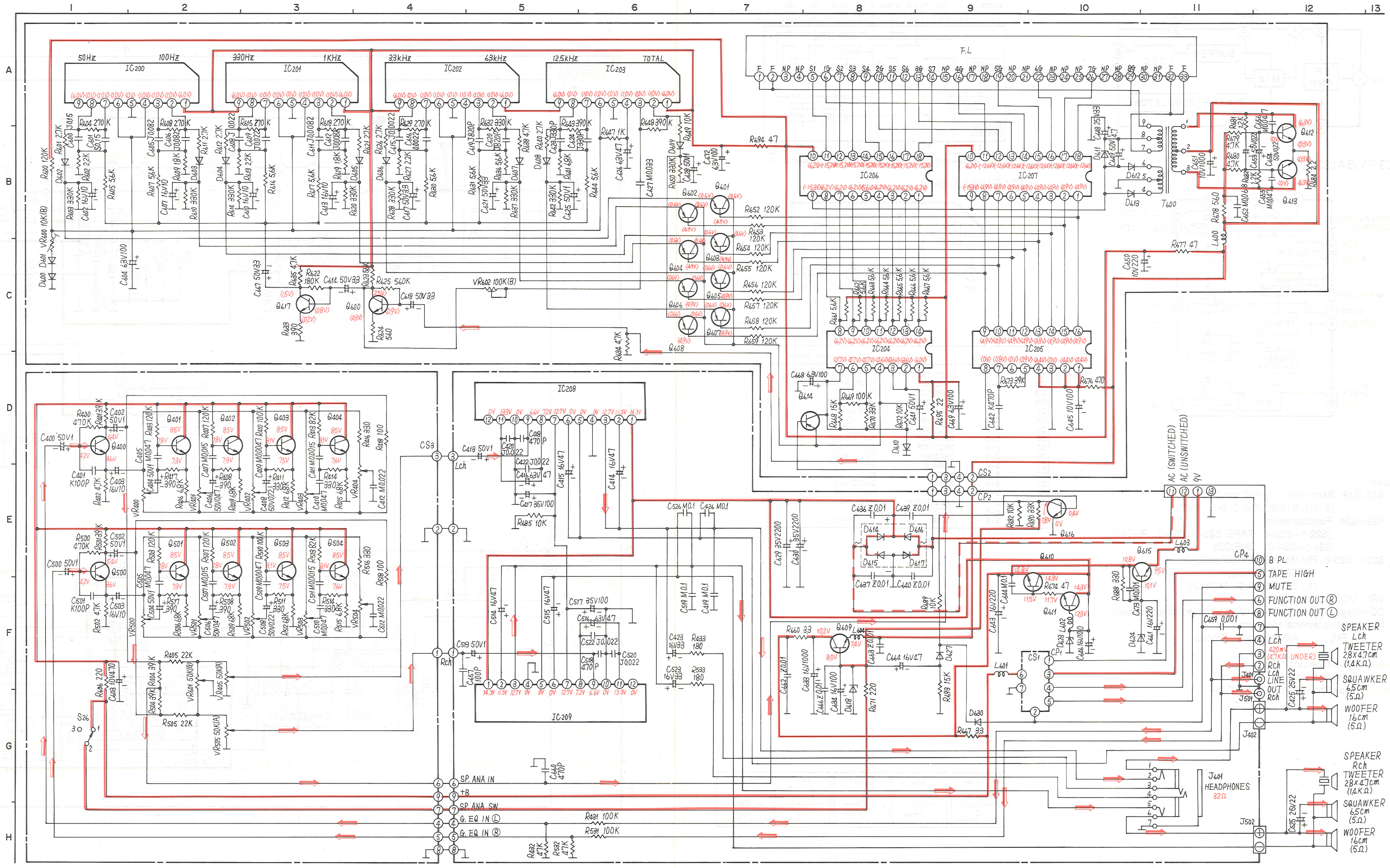


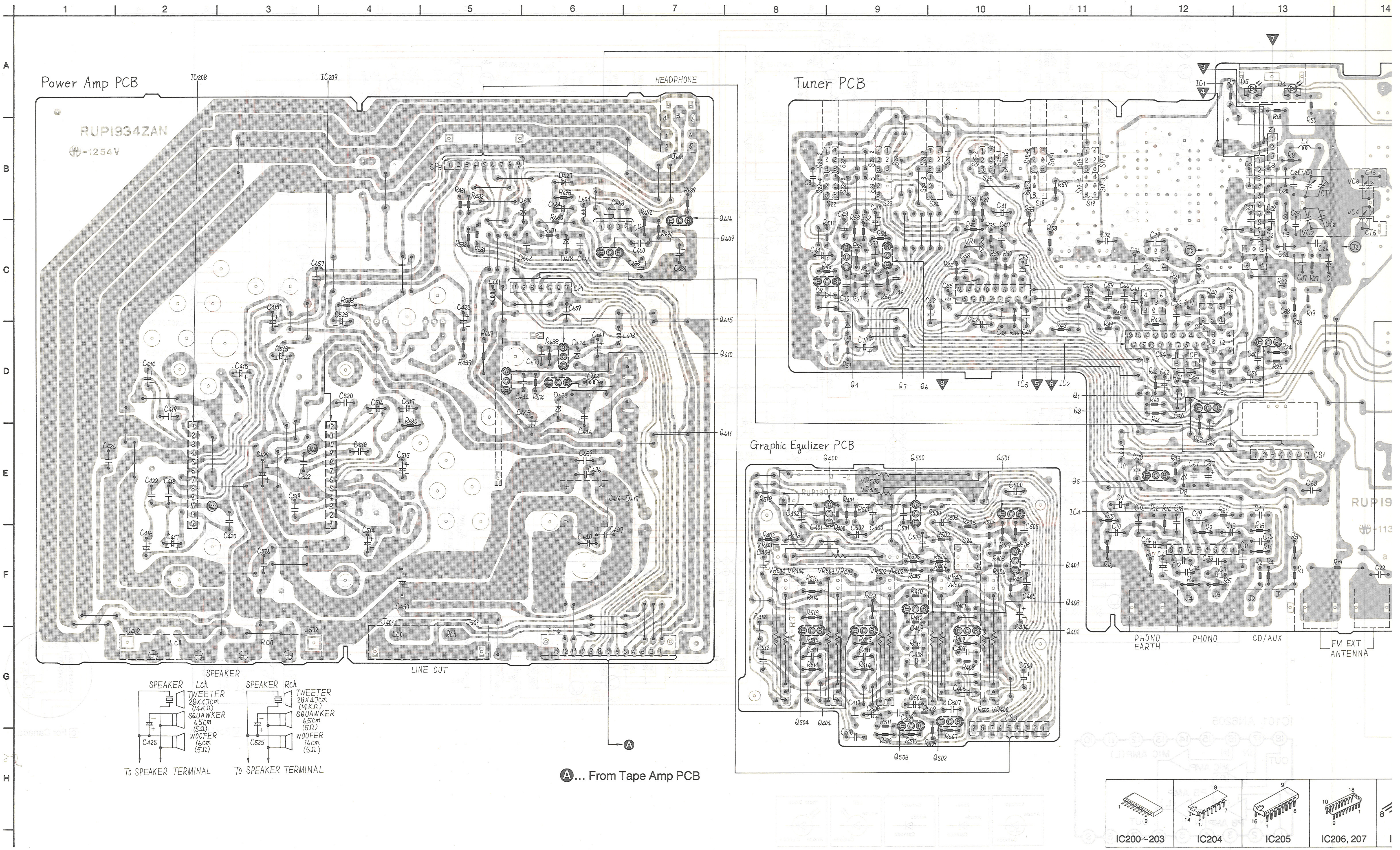
Photo Diode
Anode
Cathode

Ref No.	Zone	Part No.	Function Name
IC200	A•2	AN6561	BAND PASS FILTER AMP
IC201	A•3	AN6561	BAND PASS FILTER AMP
IC202	A•4	AN6561	BAND PASS FILTER AMP
IC203	A•6	AN6561	BAND PASS FILTER AMP
IC204	D•8	LB1407	LEVEL METER
IC205	D•10	RVIM54832P-1	8 ch SELECTOR
IC206	B•8	RVIMSL915RS	SEGMENT DRIVER
IC207	B•10	RVIMSL915RS	GRID DRIVER
IC208	D•6	AN7161N	POWER AMP
IC209	G•6	AN7161N	POWER AMP
Q400	D•1	2SC1740S	G EQ AMP
Q401	D•2	2SC1740R	G EQ AMP
Q402	D•2	2SC1740R	G EQ AMP
Q403	D•3	2SC1740R	G EQ AMP
Q404	D•3	2SC1740R	G EQ AMP
Q500	F•1	2SC1740S	G EQ AMP
Q501	F•2	2SC1740R	G EQ AMP
Q502	F•2	2SC1740R	G EQ AMP
Q503	F•3	2SC1740R	G EQ AMP
Q504	F•3	2SC1740R	G EQ AMP
Q600	C•4	2SC1740R	AMP
Q601	B•7	2SA564R	SAMPLING GATE
Q602	B•7	2SA564R	SAMPLING GATE
Q603	C•7	2SA564R	SAMPLING GATE
Q604	C•7	2SA564R	SAMPLING GATE
Q605	C•7	2SA564R	SAMPLING GATE
Q606	C•7	2SA564R	SAMPLING GATE
Q607	C•7	2SA564R	SAMPLING GATE
Q608	C•7	2SA564R	SAMPLING GATE
Q609	F•8	2SC1383R	REGULATOR
Q610	F•10	2SD1266P	REGULATOR
Q611	F•10	2SC1740R	REGULATOR
Q612	B•12	2SC2001L1	OSC ILLATOR
Q613	B•12	2SC2001L1	OSC ILLATOR
Q614	D•8	2SA564R	MUTING
Q615	F•11	2SC1383R	REGULATOR
Q616	E•10	2SC1740R	MUTING
Q617	C•3	2SC1740R	AMP
D600	C•1	MA165	A VC
D601	C•1	MA165	A VC
D602	B•1	MA165	RECTIFIER
D603	B•2	MA165	RECTIFIER
D604	B•2	MA165	RECTIFIER
D605	B•4	MA165	RECTIFIER
D606	B•4	MA165	RECTIFIER
D607	B•5	MA165	RECTIFIER
D608	B•5	MA165	RECTIFIER
D609	B•6	MA165	RECTIFIER
D610	B•8	MA165	A VC
D611	B•10	RVDMTZ5R1B	ZENR
D612	B•10	MA165	RECTIFIER
D613	B•10	MA165	RECTIFIER
D614	E•8	RVDS4VB10F	RECTIFIER
D615	E•8	RVDS4VB10F	RECTIFIER
D616	E•8	RVDS4VB10F	RECTIFIER
D617	E•8	RVDS4VB10F	RECTIFIER
D618	G•8	RVDMTZ8R2B	ZENR
D619	E•9	RVD1SR35	RECTIFIER
D623	F•10	RVDMTZ13A	ZENR
D624	F•11	RVDMTZ10A	ZENR
D627	F•9	MA165	SWITCHING
D630	G•9	MA165	SWITCHING

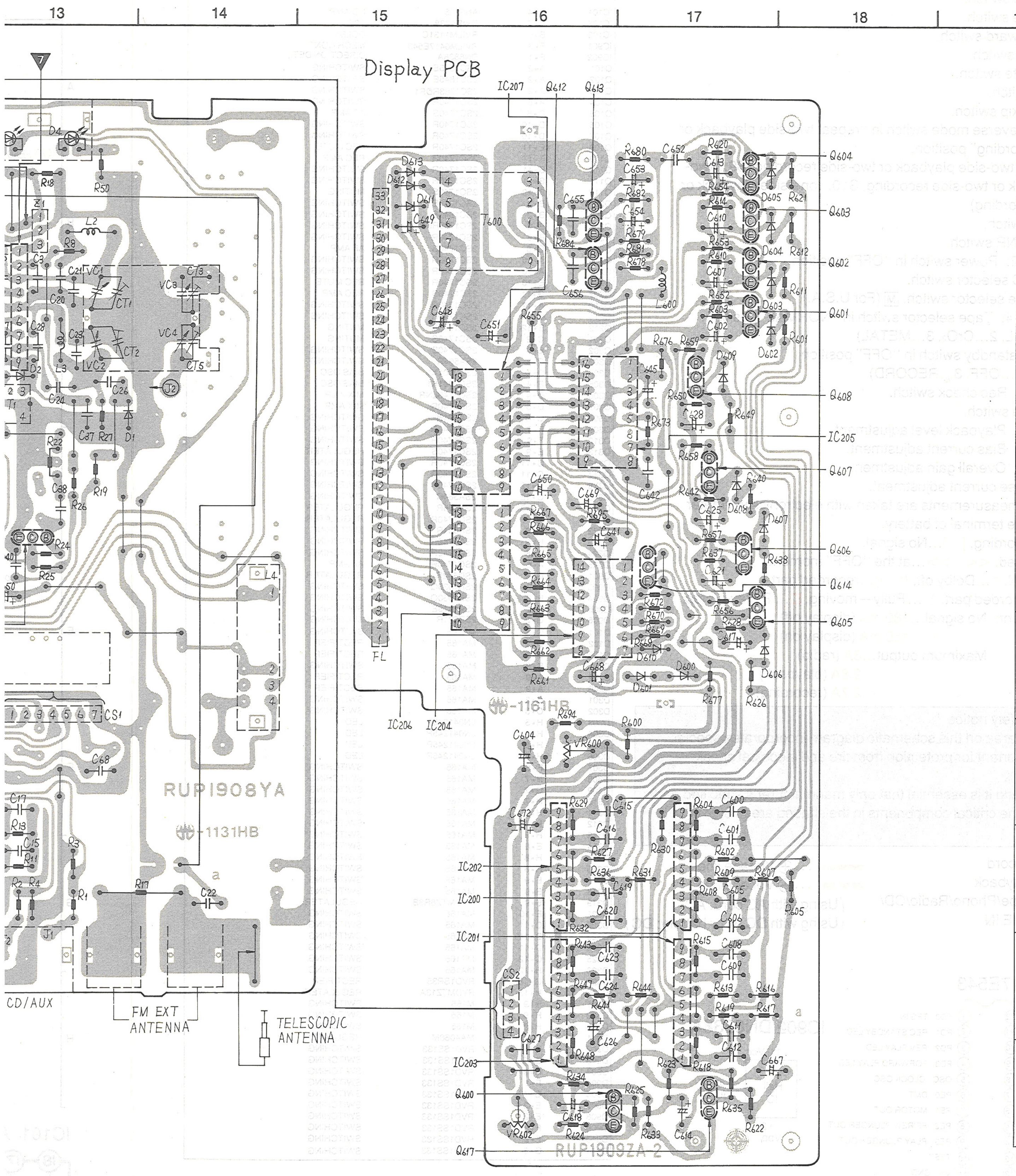
SCHEMATIC DIAGRAM (Amplifier) MODEL RX-C300

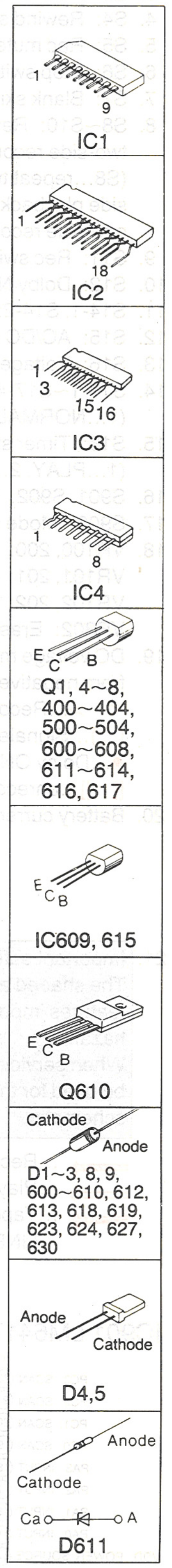

1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H
50Hz
100Hz
IC200
330Hz
1KHz
IC201
3.3kHz
6.3kHz
IC202
12.5kHz
TOTAL
IC203
F.L
IC206
IC207
IC204
IC205
IC208
IC209
T600
VR600 10K(B)
VR602 100K(B)
CS3
Lch
Rch
CS2
CP2
CP4
CS1
CP1
S26
SP. ANA IN
+B
SP. ANA SW
G. EQ IN Ⓛ
G. EQ IN Ⓡ
AC (SWITCHED)
AC (UNSWITCHED)
9V
B PL
TAPE HIGH
MUTE
FUNCTION OUT Ⓡ
FUNCTION OUT Ⓛ
Lch
Rch
LINE OUT
J401
J501
J402
J502
J601 HEADPHONES 32Ω
SPEAKER Lch
TWEETER 2.8×4.7cm (1.4KΩ)
SQUAWKER 6.5cm (5Ω)
WOOFER 16cm (5Ω)
SPEAKER Rch
TWEETER 2.8×4.7cm (1.4KΩ)
SQUAWKER 6.5cm (5Ω)
WOOFER 16cm (5Ω)
420mV (4.7KΩ UNDER)

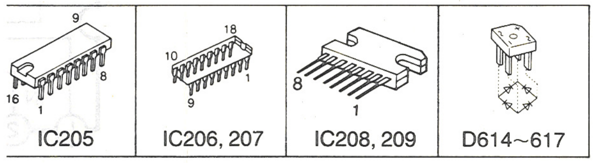
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (Tuner Amplifier) MODEL RX-C300


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
Power Amp PCB
RUP1934ZAN
-1254V
IC208
IC209
HEADPHONE
J601
CP3
CP1
CP2
Q616
Q609
Q615
Q610
Q611
D427
D430
D418
D623
D624
D614~D617
L601
L602
L603
L604
C414
C415
C419
C426
C422
C418
C416
C417
C420
C413
C513
C523
R538
C657
C520
C516
C517
R685
C518
C629
C522
C519
C515
C514
C526
C423
C659
C661
C673
C644
R674
C643
C646
C639
C636
C637
C640
C630
C662
C663
C664
C666
C660
C633
C634
R431
R432
R531
R532
R660
R671
R673
R688
R667
R433
R689
R692
R690
J402
J502
J401
J501
Lch
Rch
SPEAKER
LINE OUT
CP4
SPEAKER Lch
SPEAKER Rch
TWEETER
2.8×4.7cm
(14KΩ)
SQUAWKER
6.5cm
(5Ω)
WOOFER
16cm
(5Ω)
C425
C525
To SPEAKER TERMINAL
To SPEAKER TERMINAL
A
A... From Tape Amp PCB
Tuner PCB
IC1
IC2
IC3
IC4
Q1
Q4
Q5
Q6
Q7
Q8
S22
S23
S24
S25
S18
S19
VR1
VC1
VC2
VC3
VC4
CT1
CT2
CT5
CF1
CS1
T1
T2
T3
L2
L3
L10
L11
D1
D2
D4
D5
D7
D8
Z1
R18
R50
R59
C72
J1
J2
J3
J4
PHONO EARTH
PHONO
CD/AUX
FM EXT ANTENNA
RUP19
Graphic Equlizer PCB
Q400
Q500
Q501
Q401
Q403
Q402
Q504
Q404
Q503
Q502
VR505
VR405
VR504
VR404
VR503
VR403
VR502
VR402
VR401
VR501
VR500
VR400
S26
CS3
RUP1909ZA
C500
C505
C504
C404
C405
C510
C512
R518
R507
R511
R512
IC200~203
IC204
IC205
IC206, 207

ODEL RX-C300




IC1
IC2
IC3
IC4
E C B
Q1, 4~8, 400~404, 500~504, 600~608, 611~614, 616, 617
E C B
IC609, 615
E C B
Q610
Cathode
Anode
D1~3, 8, 9, 600~610, 612, 613, 618, 619, 623, 624, 627, 630
Anode
Cathode
D4,5
Anode
Cathode
Ca
A
D611



ELECTRICAL PARTS LIST

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Resistor Type	Wattage Tolerance
ERD: Carbon	10 : ⅛ W J : ±5%
ERDS: Carbon	12 : ½ W
ERX: Metal Film	25 : ¼ W
ERQ: Fuse Type Metal	1 : 1 W
RRD: Carbon (Chip Type)	18 : ⅛ W

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value (1000 pF)	Tolerance	Peculiarity
ECEA	50	M	R47	
Type	Voltage	Peculiarity	Value (0.47 µF)	

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
ECEA: Electrolytic	OJ : 6.3 V	2H : 500 V DC	C : ±0.25 pF
ECCD: Ceramic	1A : 10 V	1 : 100 V	J : ±5%
ECKD: Ceramic	1C : 16 V	DKC : 400 V AC	K : ±10%
ECQM: Polyyester	1E : 25 V		Z : +80%,
	1H : 50 V		−20%
ECQP: Polyproylene	1V : 35 V		P : +100%,
	50 : 50 V		−0%
ECET: Electrolytic			
ECEA□□□N: Non Polar	25 : 25 V		
Electrolytic	16 : 16 V		
QCU □: Ceramic (Chip Type)			
ECUX: Ceramic (Chip Type)			

REPLACEMENT PARTS LIST

Important safety notice
Components identified by ⚠ mark have special charactristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

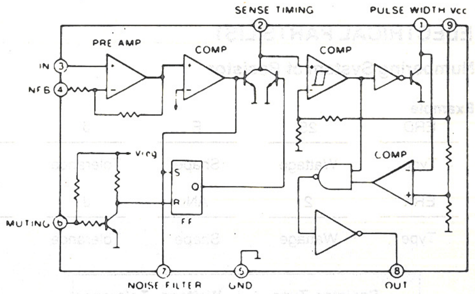
Ref. No.	Part. No.	Part Name & Description
	INTEGRATED CIRCUITS	
IC1	**RViTA7358P**	Integrated Circuit
IC2	**BA4234L**	Integrated Circuit
IC3	**RViBA1332L**	Integrated Circuit
IC4	**RViBA328MR**	Integrated Circuit
IC101	**AN6205**	Integrated Circuit
IC102	**RViBA338**	Integrated Circuit
IC103	**RViLM1131C**	Integrated Circuit
IC200,201,202,203	**AN6561**	Integrated Circuit
IC204	**LB1407**	Integrated Circuit
IC205	**RViM54832P-1**	Integrated Circuit
IC206,207	**RViMSL915RS**	Integrated Circuit
IC208,209	**AN7161N**	Integrated Circuit
IC901	**LM6417E543**	Integrated Circuit
IC902	**DN6838A**	Integrated Circuit
	TRANSISTORS	
Q1	**2SC1359B**	Transistor, Si
Q4,8,303,308,319,322,601, 602, 603,604,605,606,607,608, 614	**2SA722-S**	Transistor, Si
Q5,6,7,104,106,107,108,109, 110,111,204,206,207,208,209, 210,211,307,309,312,316,317, 318,321,323,324,325,401,402, 403,404,501,502,503,504,600, 611,616,617	**2SC1740R**	Transistor Si
Q101,102,201,202	**2SC1845E**	Transistor, Si
Q103,203	**2SC1788RDR1**	Transistor, Si
Q105,112,205,212,301,302, 313,400,500	**2SC1740S**	Transistor, Si
Q304,305	**2SC2001K1**	Transistor, Si
Q306	**2SC1740LNR**	Transistor, Si
Q320	**2SA886**	Transistor, Si
Q609,615	**2SC1383**	Transistor, Si
Q610	**2SD1266P**	Transistor, Si
Q612,613	**2SC2001L1**	Transistor, Si
Q901	**2SD592R**	Transistor, Si
Q903,904	**2SB1030Q**	Transistor, Si
Q905	**2SA1115**	Transistor, Si
Q906	**2SB621R**	Transistor, Si
	DIODES & RECTIFIERS	
D1	**MA840B**	Diode, Si
D2,3,9,101,102,103,201,202, 203,301,302,307,308,309,310, 311,312,313,314,315,316,317, 318,321,322,323,324,325,326, 331,332,333,600,601,602,603, 604,605,606,607,608,609,610, 612,613,627,630	**MA165**	Diode, Si
D4, 5	**LN021244P**	LED
D8,319	**RVDMTZ6R8B**	Diode, Si
D303,304,305,306	**LN041245P**	LED
D327,619	**RVD1SR35**	Diode, Si
D330,623	**RVDMTZ13A**	Diode, Si
D611	**RVDMTZ5R1B**	Diode, Si
D614,615,616,617	**RVDS4VB10F**	Diode, Si
D618	**RVDMTZ8R2B**	Diode, Si
D624	**RVDMTZ10A**	Diode, Si
D901	**MA4068L**	Diode, Si
D902,903,904,905,906,907, 908,909,910,911	**RVD1SS133**	Diode, Si
	COILS	
L2	**RLD4Y44**	Antenna Coil, FM
L3	**RLD4Y5**	Oscillator Coil, FM
L4	**RLF2D143**	Bar Antenna, AM
L6	**RLA3B44**	Coil, SW Ant.
L11	**RLQZB101K**	Choke Coil
L101,201	**RLE5031**	Coil, Filter
L102,202	**RLQZM473J**	Choke Coil
L103,203	**RLQZD822J**	Choke Coil
L301	**RLQZB221K**	Choke Coil
L600, 601,602,603,604	**RLQZB101K**	Choke Coil
L901	**RLQZD101K**	Choke coil
	TRANSFORMERS	
T1,3	**RLi4B153**	I.F. Transformer, FM
T2	**RLi2B153**	I.F. Transformer, AM
T301	**RL09C34**	Oscillator Coil
T302 M (For U.S.A.)	**RLT5Z5M1A**	Power Transformer ⚠
T302 C (For Canada.)	**RLT5Z5C1A**	Power Transformer ⚠
T600	**RLT9F3B**	Oscillator Coil
	THERMISTOR	
TH301	**RRT202**	Thermistor
	VARIABLE CAPACITOR	
VC1	**RCV4LC2R1A**	Tuning Capacitor
	TRIMMER CONDENSER	
CT4	**RCVPL5A**	Trimmer Capacitor
CT5,7,8	**RCVTZ11F**	Trimmer Capacitor
	VARIABLE RESISTORS	
VR1	**EVND4AA00B14**	Variable Resistor, 10 kΩ (B)
VR100,200	**EVND4AA00B52**	Variable Resistor, 500Ω (B)
VR101,102,201,202	**EVND4AA00B15**	Variable Resistor, 100 kΩ (B)
VR301	**EWASF0C95A14**	Variable Resistor, 10 kΩ (A)
VR302	**EVND4AA00B24**	Variable Resistor, 20 kΩ (B)
VR400, 401, 402, 403, 404, 500, 501, 502, 503, 504	**EWASA2C95G54**	Variable Resistor, 50 kΩ (G)
VR405,505	**EWAPA1C10A54**	Variable Resistor, 50 kΩ (A)
VR600	**EVND4AA00B14**	Variable Resistor, 10 kΩ (B)
VR601	**EWASJ2C95G54**	Variable Resistor, 50 kΩ (G)
VR602	**EVND4AA00B15**	Variable Resistor, 100 kΩ (B)
	CERAMIC FILTERS	
CF1	**RVF107WMZ**	Ceramic Filter
CF2	**RVFSFZ455B**	Ceramic Filter
	FILTER	
Z1	**RXABPWB5**	B.P.F.
	FLUORESCENT LEVEL METER	
FL1	**RADBG271ZS**	Display, LCD
	SWITCHES	
S1,2,3,4,5,6,11	**EVQQS405K**	Slide Switch FWD, REV, Stop, Rec Mute FF, Rew, Rec Standby
S7,12,26	**RSH2B24T**	Push Switch, Blank skip On/Off SPE ANA. On/Off Dolby NR In/Out
S8,9,10	**RSHX073Z**	Push Switch, Reverse Mode
S14	**RSH2B37Z**	Switch, Power
S16 M (For U.S.A.)	**RSR4A08Y**	Switch, Voltage Selector ⚠
S17	**RSS3F13Z**	Switch, Tape Selector
S18,19,21,22,23,24	**RSHX074Z**	Switch, Function
S25	**RSS3A12Z**	Switch, FM Mode/Beat Proof
S901,902	**RSH1A46Z**	Switch, Rec Check
S903	**RSH1A47Z**	Switch, Mode
	RSHX074Z	
	JACKS	
J1~4	**RJF1091Z**	Jack
J5	**RJF1087Z**	Jack
J6	**RJJ1D27Z**	Jack, Headphones
J7 (S15)	**RJJ1D20Y**	Jack, AC In ⚠
J8	**RJJ1F1Y**	Jack, DC In

M ...For U.S.A.

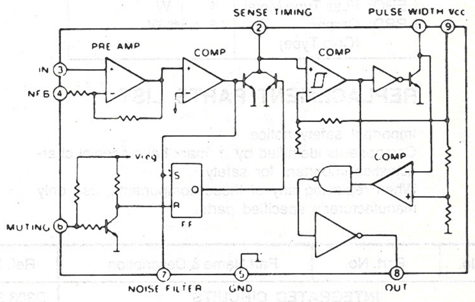
C ...For Canada.

Ref. No.	Part. No.
RESISTORS	
R,2,29,30,49,362,432,532	ERDS2TJ473
R3,4,109,123,128,209,223,228,668,693	ERDS2TJ153
R5,6,356,902	ERDS2TJ683
R7,59	ERDS2TJ330
R8,18,20,22,26,33,418,518	ERDS2TJ101
R9,10,108,208,301,348	ERDS2TJ152
R11,12,15,16,47,60,61,122,125,130,134,140,145,222,225,230,234,240,245,303,307,320,324,340,343,349,355,649,672,685,689,692,912	ERDS2TJ103
R13,14,48,52,53,62,106,126,206,226,313,347,354,365,410,431,510,531,669	ERDS2TJ104
R17	ERG1ANJP101
R19,41,54,55	ERDS2TJ224
R21,45,58,63,357,674,	ERDS2TJ470
R24,112,131,212,231	ERDS2TJ684
R25,310,318,335,676	ERDS2TJ471
R27,42,105,205,401,501	ERDS2TJ392
R34,100,101,103,104,111,200,201,203,204,211,366,372,602,613,627	ERDS2TJ222
R35,36,107,207,605,607,616,617,623,630,631,636,644,661,662,663,664,665,666,691	ERDS2TJ562
R37,56,57,141,142,241,242,323,336,358,647,901,910,911	ERDS2TJ102
R39	ERDS2TJ821
R40,312,319,368,371,606,671	ERDS2TJ221
R43,50,113,213,321,322,344,411,414,416,511,514,516,688	ERDS2TJ331
R44,115,137,215,237,	ERDS2TJ822
R46,316,327,406,409,412,415,506,509,512,515,641	ERDS2TJ682
R102,202	ERDS2TJ100
R110,127,210,227,346,367,670,690	ERDS2TJ333
R114,214,311,315,601,611,612,621,626,640	ERDS2TJ272
R116,216,681,682	ERDS2TJ122
R117,217	ERDS2TJ683
R118,218,604,608,615,618,629	ERDS2TJ274
R119,143,219,243,302,342,352,405,505	ERDS2TJ223
R120,138,139,220,238,239	ERDS2TJ332
R121,124,129,133,136,144,221,224,229,233,236,244,304,308,309,328,334,338,341,359,369,402,502,634,635,638,679,680,904,905,906,907,908,909,913	ERDS2TJ472
R132,232	ERDS2TJ681
R135,235,326,332	ERDS2TJ151
R300	ERDS2TJ1R0
R305,684	ERDS2TJ2R2
R306	ERDS2TJ155
R314	ERD25TJ106
R317,360,373	ERDS2TJ820
R325	ERDS2TJ184
R329	ERD25FJ470
R350	ERD25FJ102
R353,624,678	ERD25FJ561
R370	ERC12ZGM335
R400,500	ERDS2TJ474
R403,407,503,507,600,652,653,654,655,656,657,658,659	ERDS2TJ124
R404,504,673,903	ERDS2TJ393
R408,417,508,517,633	ERDS2TJ391
R413,513	ERDS2TJ823
R433,533	ERDS2TJ181
R603,610,614,620,628,632,637,642,650	ERDS2TJ334
R609,619	ERDS2TJ182
R622	ERDS2TJ184
R625	ERDS2TJ564
R643,648	ERDS2TJ394
R660,667	ERD2FCJ3R3P
R675	ERDS2TJ222
R677	ERDS25FJ470
R695	ERDS2TJ220
R901,910,911	ERDS2TJ102
R902	ERDS2TJ683
R903	ERDS2TJ393
R904,905,906,907,908,909,913	ERDS2TJ472
R912	ERDS2TJ103
R914	ERDS2TJ682
CAPACITORS	
C3,28,636,637,639,640,662,663,666	ECKD1H103MD
C5	RCBS1H3R9KL
C6,7,50,64,65,602,607,610,613,	ECEA1CU100
C8,73,74,657	ECCD1H101K
C9,10,667	ECEA1HU3R3
C11,12,418,518,642,660,906,914	ECKD1H471KB
C13,14,45,46,60,62	ECEA1HU4R7
C15,16,61,66	ECFT1E103MD
C17,18,36	ECFT1E333MD
C19,78,303,668,669,672	ECEA0JU101
C20,22,37,38,659,673,911	ECKD1H102MD
C21	ECCD1H180KC
C23,27	RCBS1H180JC
C24,51	ECCD1H470KC
C26	ECCD1H030CC
C29	ECCD1H050DC
C32,510,655,656	ECFT1E473MD
C40,67,68,72,75,76,77,370	ECKD1H103ZF
C41,42,43,44,52,63,901	ECEA1HU010
C47,48,53,54	ECFT1E223MD
C49	ECFT1E153MD
C55	ECEA1HU0R1
C56	ECCD1H331K
C57	ECEA1AU101
C58	ECQG1H102KZ
C59	ECEA0JU221
C69	ECEA0JU470
C79,907	ECCD1H221K
	ECQV1H102MD
C100,200	ECEA50M1R
C101,110,125,135,201,210,225,235,310,324,339	ECEA1HU010
C102,105,202,205,311,902	RCBS1H221KB
C103,203	RCBS1H821KB
C104,117,204,217	ECKD1H102MD
C106,121,206,221,340	ECFT1E333KD
C107,207,325	ECEA0JU330
C108,208	ECEA1HUR47
C109,209,337	ECEA1CU220
C111,211	ECFT1E332KD
C112,118,129,212,218,229,319,321,323,328,334,403,503	ECEA1CU100
C113,213	ECEA1HK0R1
C114,134,214,234	RCBS1H101KB
C115,120,128,215,220,228	ECEA1HUR33
C116,124,132,216,224,232	ECFT1E473KD
C119,219,309	ECFT1E472KD
C122,123,126,127,222,223,226,227,349	ECEA1EU4R7
C130,230	ECKD1H222MD
C131,231	ECQM1H153JV
C133,233	ECFT1E223KD
C136,236,312,345	ECEA0JU101
C301,350	ECFT1E103MD
C305	ECQP2A182JZ
C306	ECQP2A103JZ
C307,327,335	ECEA1AU221
C313,314	RCBS1C222MX
C316,326	ECEA1AU471
C317	RCBS1C472MXY
C318,330,333	ECEA1AU470
C320,322,653,654	ECEA1HUR22
C338,629,630	ECEA1VU222
C341,342	ECEA1HN010
C344,643,661,908	ECEA1CU221
C346	ECKD1H103ZF
C347,381,628	RCBS1H101KB
C348	RCBS1H331KB
C371,372	ECKD1H102MD
C380	RCBS1H100JC
C400,402,404,500,502,504,625	ECEA1HU010
C405,410,505	ECFT1E473MD
C406,506	ECEA1HUR47
C407,507	ECFT1E153MD
C408,508	ECEA1HUR22
C409	ECFT1E472KD
C411,511	ECFT1E152KD
C412,512	ECFT1E223MD
C413,513,522,641	ECEA1HU010
C414,415,514,515	ECEA1CU470
C416,516,626	ECEAOJU470
C417,517	ECEA1VU101
C419,426,519,526	ECQG1H104KZ
C420,422,520,522,665	ECQV1H223JZ
C423,523,524	ECEA1CU330
C425,525	ECEA1EN220
C509	RCBS1C472MX
C600,601	ECQV1H154JZ
C603	ECEA1AU471
C604	ECEA0JU101
C605,606	ECQV1H823JZ
C608,609	ECQM1H223JV
C611,612	ECQM1H822JV
C614,617,618,621	ECEA1HU3R3
C615,616	ECQM1H222JV
C619,620	ECQP2A821JZ
C623,624	ECQP2A331JZ
C627	ECFT1C333MD
C633	ECEA1CU102
C634,646	ECEA1CU101
C644	ECFT1C104MD
C645	ECEA1AU101
C648	ECEA1EU330
C649	ECEA1HU4R7
C650	ECEA1AU221
C651	ECEA1AU102
C652	ECFT1E683MD
C664	ECEA1CU470
C903	ECSF1AE106
C904	RCBS1C103NY
C905	ECEA1CU101
C911	ECKD1H152MD
C912	RCBS1H102KB
C913	RCBS1H471KB

IC102 RVIBA338



IC103 RVILM1131C



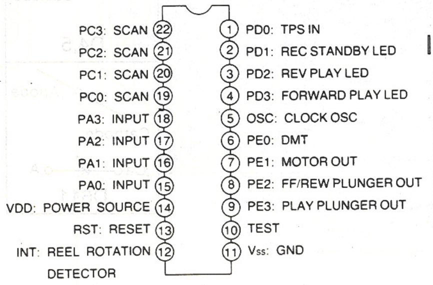
Notes:

1. S1: Forward switch.
2. S2: Reverse switch.
3. S3: Fast forward switch.
4. S4: Rewind switch.
5. S5: Rec mute switch.
6. S6: Stop switch.
7. S7: Blank skip switch.
8. S8~S10: Reverse mode switch in ''repeat two-side playback or two-side recording'' position.
   (S8…repeat two-side playback or two-side recording, S9…two-side playback or two-side recording, S10…one-side playback or one-side recording)
9. S11: Rec switch.
10. S12: Dolby NR switch.
11. S14-1, S14-2: Power switch in ''OFF'' position.
12. S15: AC/DC selector switch.
13. S16: Voltage selector switch. M (For U.S.A.)
14. S17-1~S17-4: Tape selector switch in ''NORMAL'' position.
    (1…NORMAL, 2…CrO₂, 3…METAL)
15. S18: Timer standby switch in ''OFF'' position.
    (1…PLAY, 2…OFF, 3…RECORD)
16. S901, S902: Rec check switch.
17. S903: Mode switch.
18. VR100, 200: Playback level adjustment.
    VR101, 201: Bias current adjustment.
    VR102, 202: Overall gain adjustment.
    VR302: Erase current adjustment.
19. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
    < >…Recording, [ ]…No signal,
    ( )…Signaled, << >>…at the ''OFF'' moment,
    ●…Dolby ON, ○…Dolby off, (( ))…recorded part
    [[ ]]…unrecorded part, ◎ … Pully—moving, □… Pulley—stop
20. Battery current: No signal…280 mA (display off)
    450 mA (display on)
    Maximum output…3A (radio)
    2.8A (playback)
    2.7A (recording)
21. Important safety notice
    The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.
    When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

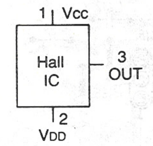
⇨ …Record
⇨ …Playback
➡ …Tape/Phono/Radio/CD/LINE IN

━ …⊕ Voltage line
╍ …⊕ Voltage line
(Using with AC cord: AC
Using with DC IN or battery: DC)

IC901 LM6417E543

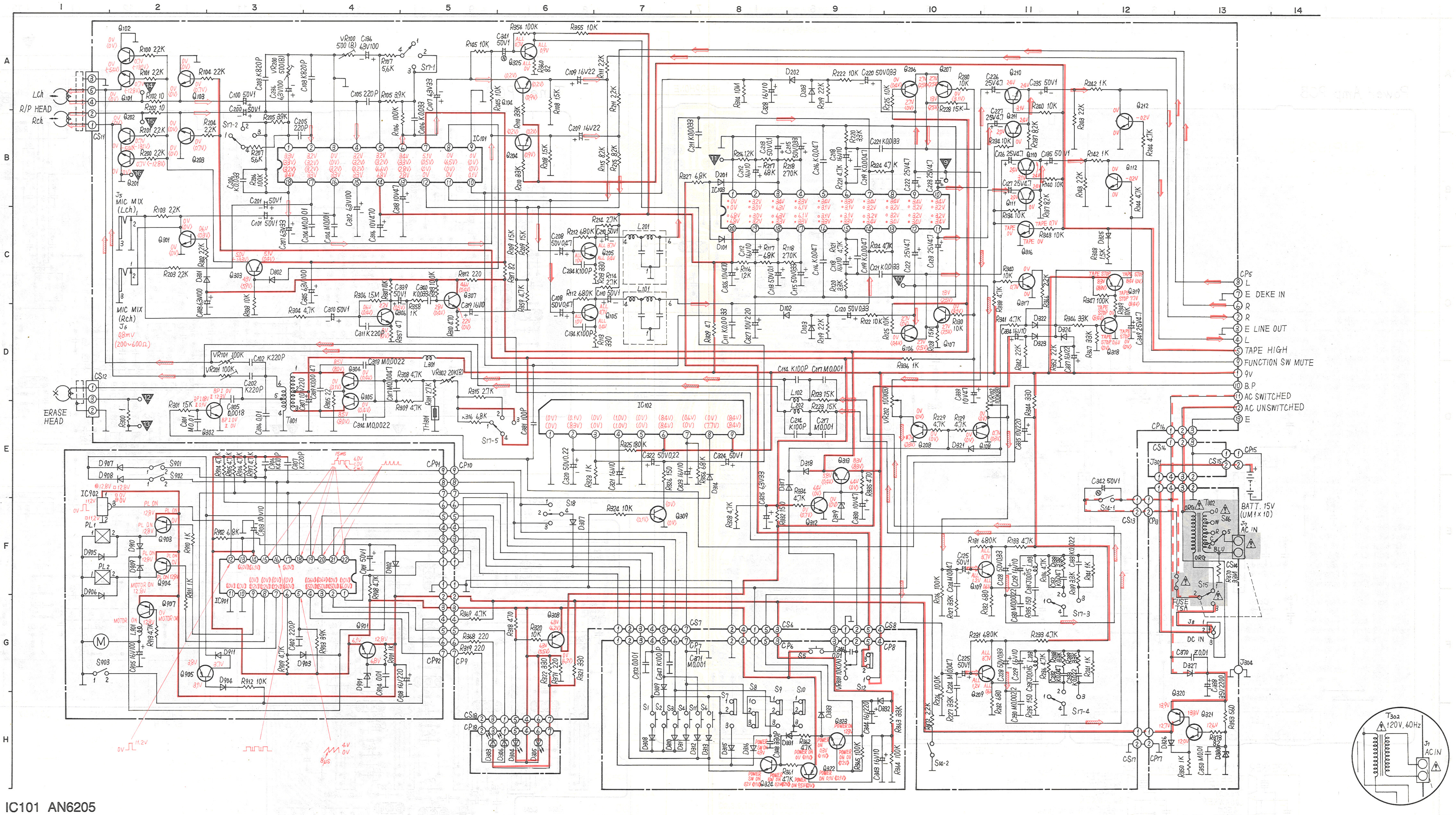


IC902 DN6838A



Ref No.	Zone	Part No.	Function Name
IC101	B•4	AN6205	EQ AMP
IC102	E•7	RVIBA338	TPS
IC103	B•9	RVILM1131C	DOLBY
IC901	F•3	RVILM6417E543	MECH CONT
IC902	F•1	DN6838A	DIRECTION DET.
Q101	A•2	2SC1845E	SWITCHING
Q102	A•2	2SC1845E	SWITCHING
Q103	A•2	2SC1788RDR1	SWITCHING
Q104	A•6	2SC1740R	SWITCHING
Q105	D•6	2SC1740S	AF AMP
Q106	D•10	2SC1740R	SWITCHING
Q107	D•10	2SC1740R	SWITCHING
Q108	E•11	2SC1740R	REC MUTE
Q109	F•11	2SC1740R	REC AMP
Q110	B•11	2SC1740R	SWITCHING
Q111	B•11	2SC1740R	SWITCHING
Q112	B•12	2SC1740S	MUTING
Q201	B•2	2SC1845E	SWITCHING
Q202	B•2	2SC1845E	SWITCHING
Q203	B•2	2SC1788RDR1	SWITCHING
Q204	B•6	2SC1740R	SWITCHING
Q205	C•6	2SC1740S	AF AMP
Q206	A•10	2SC1740R	SWITCHING
Q207	A•10	2SC1740R	SWITCHING
Q208	E•10	2SC1740R	REC MUTE
Q209	G•11	2SC1740R	REC AMP
Q210	A•11	2SC1740R	SWITCHING
Q211	B•11	2SC1740R	SWITCHING
Q212	B•12	2SC1740S	MUTING
Q301	C•2	2SC1740S	MUTING
Q302	E•3	2SC1740S	SWITCHING
Q303	C•3	2SA564R	SWITCHING
Q304	D•4	2SC2001K1	BIAS OSC
Q305	E•4	2SC2001K1	BIAS OSC
Q306	D•4	2SC1740LNR	MIX AMP
Q307	D•5	2SC1740R	MIX AMP
Q308	G•6	2SA564R	SWITCHING
Q309	F•7	2SC1740R	SWITCHING
Q312	F•9	2SC1740R	SWITCHING
Q313	E•9	2SC1740S	REGULATER
Q316	C•11	2SC1740R	SWITCHING
Q317	C•11	2SC1740R	SWITCHING
Q318	D•12	2SC1740R	SWITCHING
Q319	C•12	2SA564R	SWITCHING
Q320	H•13	2SA886R	REGULATER
Q321	H•13	2SC1740R	REGULATER
Q322	H•9	2SA564R	SWITCHING
Q323	H•9	2SC1740R	SWITCHING
Q324	H•8	2SC1740R	SWITCHING
Q325	A•6	2SC1740R	AF AMP
Q901	G•4	2SD592R	REGULATER
Q903	F•2	2SB1030Q	SWITCHING
Q904	F•2	2SB1030Q	SWITCHING
Q905	G•2	2SA1115E	SWITCHING
Q906	G•2	2SB621R	SWITCHING
D101	C•8	MA165	SWITCHING
D102	D•9	MA165	RECTIFIER
D103	D•9	MA165	RECTIFIER
D201	B•8	MA165	SWITCHING
D202	A•9	MA165	RECTIFIER
D203	A•9	MA165	RECTIFIER
D301	C•3	MA165	SWITCHING
D302	C•3	MA165	SWITCHING
D303	H•5	LN041245P	LED
D304	H•6	LN041245P	LED
D305	H•6	LN041245P	LED
D306	H•6	LN041245P	LED
D307	F•6	MA165	SWITCHING
D308	H•7	MA165	SWITCHING
D309	G•7	MA165	SWITCHING
D310	H•7	MA165	SWITCHING
D311	H•7	MA165	SWITCHING
D312	H•8	MA165	SWITCHING
D313	H•8	MA165	SWITCHING
D314	E•8	MA165	SWITCHING
D315	H•8	MA165	SWITCHING
D316	H•8	MA165	SWITCHING
D317	E•9	MA165	SWITCHING
D318	E•9	MA165	SWITCHING
D319	E•9	RVDMTZ6R8B	REGULATER
D321	E•10	MA165	SWITCHING
D322	D•11	MA165	SWITCHING
D323	D•11	MA165	SWITCHING
D324	D•11	MA165	SWITCHING
D325	C•12	MA165	SWITCHING
D326	H•12	MA165	SWITCHING
D327	G•13	RVD1SR35	RECTIFIER
D330	H•13	RVDMTZ13A	REGULATER
D331	H•9	M165	SWITCHING
D332	H•9	M165	SWITCHING
D333	H•9	M165	SWITCHING
D901	G•4	MA4068M	REGULATER
D902	F•4	RVD1SS133	SWITCHING
D903	G•3	RVD1SS133	SWITCHING
D904	H•3	RVD1SS133	SWITCHING
D905	F•1	RVD1SS133	SWITCHING
D906	G•1	RVD1SS133	SWITCHING
D907	E•2	RVD1SS133	SWITCHING
D908	E•2	RVD1SS133	SWITCHING
D909	F•2	RVD1SS133	SWITCHING
D910	F•2	RVD1SS133	SWITCHING
D911	G•3	RVD1SS133	SWITCHING

SCHEMATIC DIAGRAM (Cassett Deck) MODEL RX-C300


1
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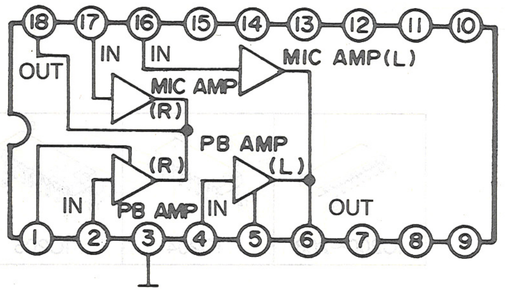
12
13
14
A
B
C
D
E
F
G
H
LCh
R/P HEAD
Rch
MIC MIX (Lch)
MIC MIX (Rch)
ERASE HEAD
IC101
IC102
IC103
IC901
IC902
CP5
L
E DEKE IN
R
R
E LINE OUT
L
TAPE HIGH
FUNCTION SW MUTE
9V
B.P
AC SWITCHED
AC UNSWITCHED
E
BATT. 15V (UM1×10)
AC IN
DC IN
FUSE
T302
120V, 60Hz
J7
AC IN

M For U.S.A.

C For Canada.

IC101 AN6205


OUT
IN
IN
MIC AMP(L)
MIC AMP
(R)
PB AMP
(R)
(L)
IN
PB AMP
IN
OUT
18
17
16
15
14
13
12
11
10
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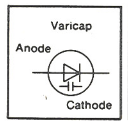
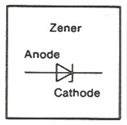
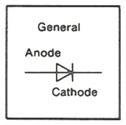
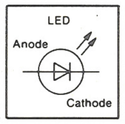

Varicap
Anode
Cathode


Zener
Anode
Cathode


General
Anode
Cathode


LED
Anode
Cathode

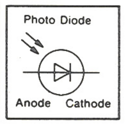
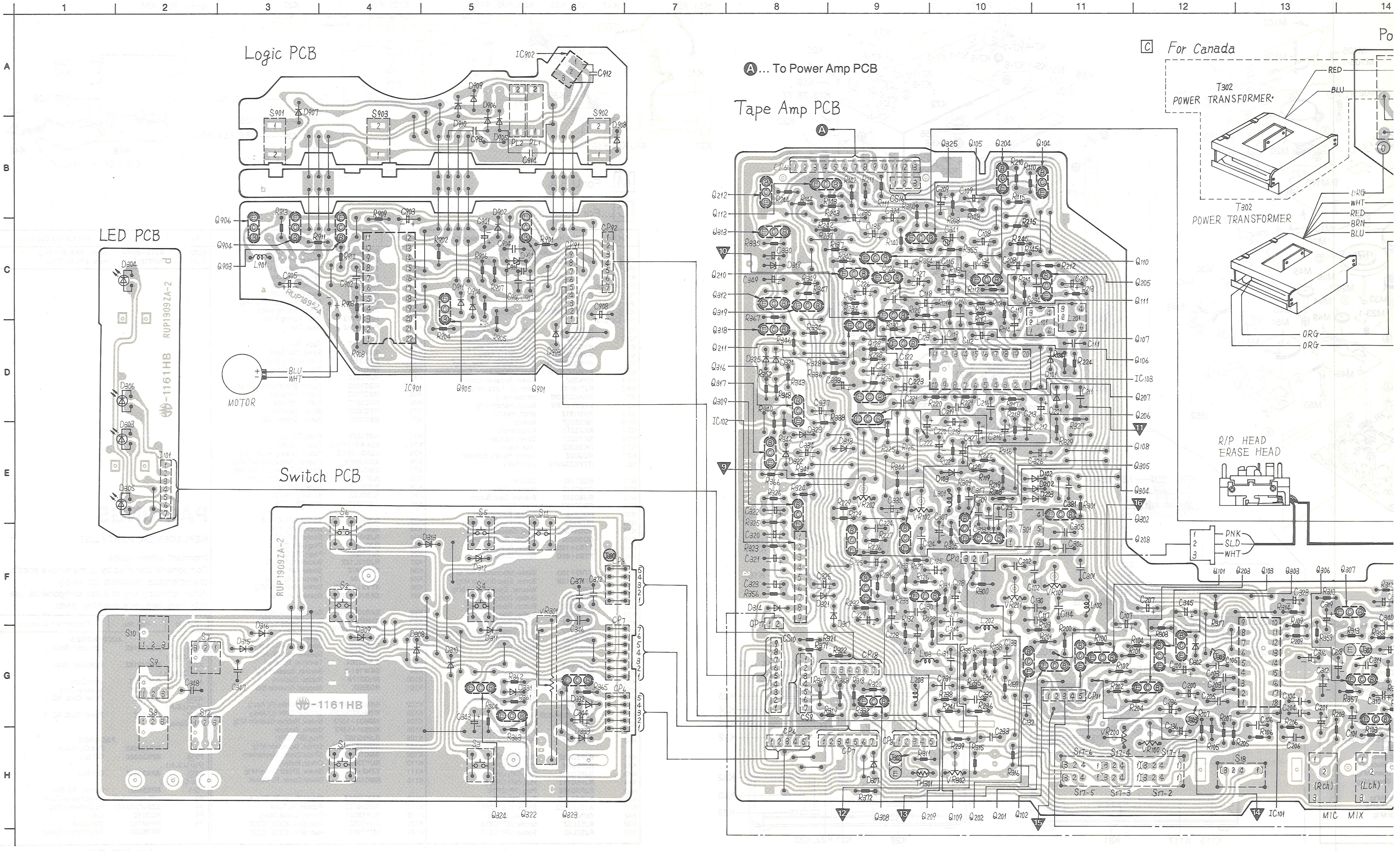


Photo Diode
Anode
Cathode

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (Cassette Deck) MODEL RX-C300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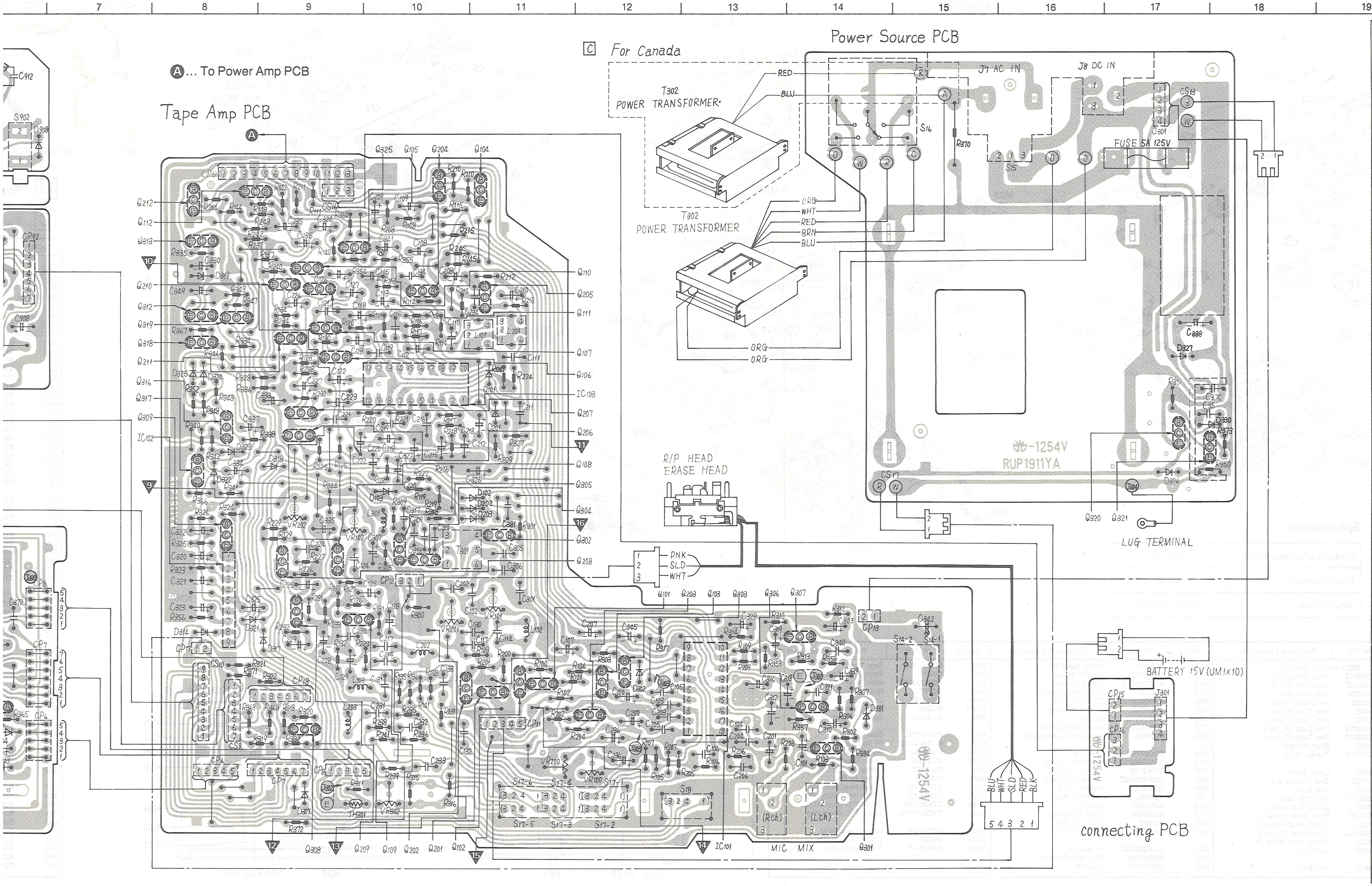
11
12
13
14
A
B
C
D
E
F
G
H
Logic PCB
LED PCB
Switch PCB
Tape Amp PCB
A ... To Power Amp PCB
C For Canada
T302 POWER TRANSFORMER
T302 POWER TRANSFORMER
RED
BLU
ORG
WHT
RED
BRN
BLU
ORG
ORG
R/P HEAD
ERASE HEAD
PNK
SLD
WHT
MOTOR
BLU
WHT
RUP1895ZA
RUP1909ZA-2
RUP1909ZA-2
1161HB
1161HB
1161HB
IC901
IC902
IC101
IC102
IC103
Q905
Q901
Q906
Q904
Q903
Q324
Q322
Q323
Q308
Q209
Q109
Q202
Q201
Q102
MIC
MIX
(Rch)
(Lch)
9
10
11
12
13
14
15
16

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (Cassette Deck) MODEL RX-C300


7
8
9
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11
12
13
14
15
16
17
18
19
Ⓐ... To Power Amp PCB
Tape Amp PCB
C For Canada
T302 POWER TRANSFORMER
T302 POWER TRANSFORMER
RED
BLU
ORG
WHT
RED
BRN
BLU
ORG
ORG
Power Source PCB
J7 AC IN
J8 DC IN
J301
CS18
S16
R370
S15
FUSE 5A 125V
C338
D327
D330
R373
R350
D376
CS17
Q304
Q320
Q321
LUG TERMINAL
-1254V
RUP1911YA
R/P HEAD
ERASE HEAD
PNK
SLD
WHT
BATTERY 15V (UM1×10)
CP15
CP16
J301
-1254V
connecting PCB
BLU
WHT
SLD
RED
BLK
5 4 3 2 1
CP13
S14-2
S14-1
D342
-1254V
MIC MIX
(Rch)
(Lch)
S18
S17-6
S17-4
S17-1
S17-5
S17-3
S17-2
Q325
Q105
Q204
Q104
Q212
Q112
Q313
Q210
Q312
Q319
Q318
Q211
Q316
Q317
Q309
IC102
Q110
Q205
Q111
Q107
Q106
IC103
Q207
Q206
Q108
Q305
Q304
Q302
Q208
Q101
Q203
Q103
Q303
Q306
Q307
Q308
Q209
Q109
Q202
Q201
Q102
IC101
Q301
CS6
CS9
CS10
CP5
CP6
CP7
CP8
CP9
CP11
CP12
CP18
S902
D908
C912
CP92
C908
VR202
VR102
VR201
VR101
VR200
VR100
VR302
TH301
T301
L101
L201
L102
L202
L103
L203
L301
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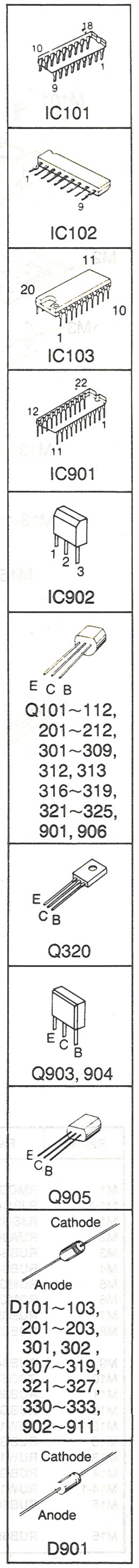
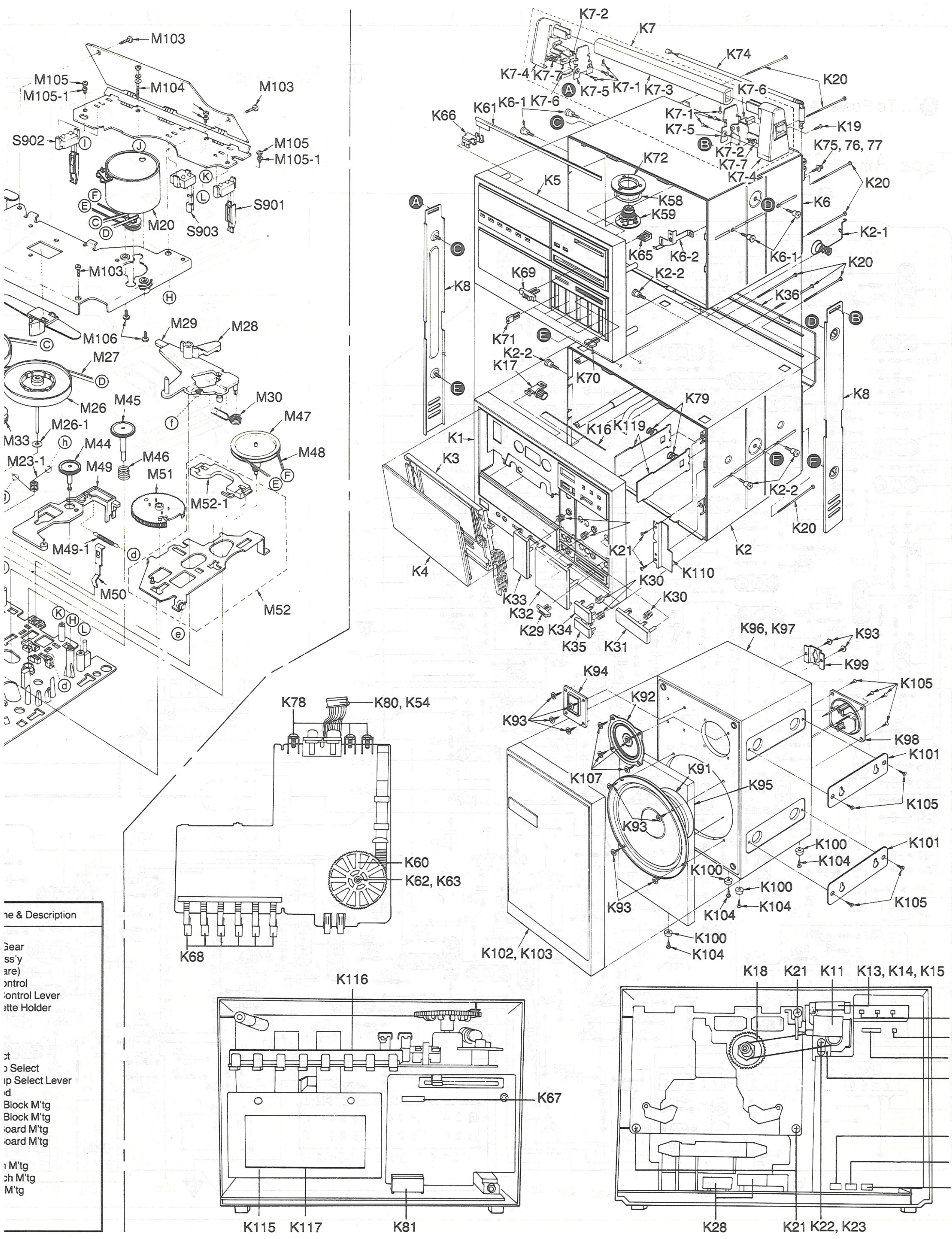
9
16
11
12
13
14
15


IC101
IC102
IC103
IC901
IC902
E C B
Q101~112, 201~212, 301~309, 312, 313 316~319, 321~325, 901, 906
Q320
Q903, 904
Q905
Cathode
Anode
D101~103, 201~203, 301, 302, 307~319, 321~327, 330~333, 902~911
Cathode
Anode
D901

CABINET PARTS LOCATION


M103
M104
M103
M105
M105-1
M105
M105-1
S902
S901
S903
M20
M103
M106
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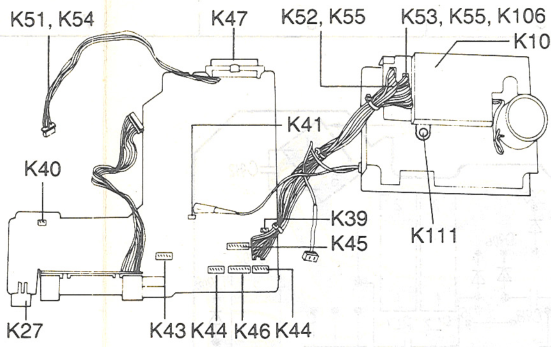
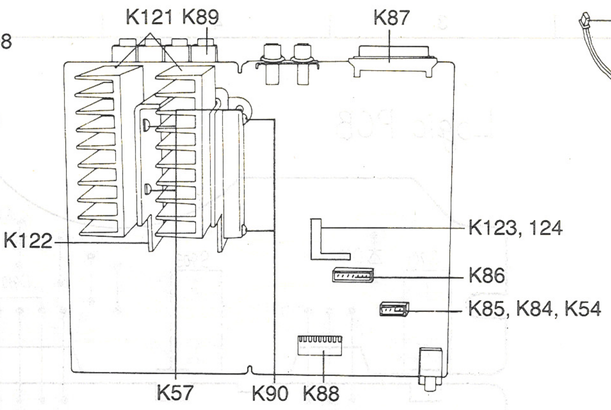
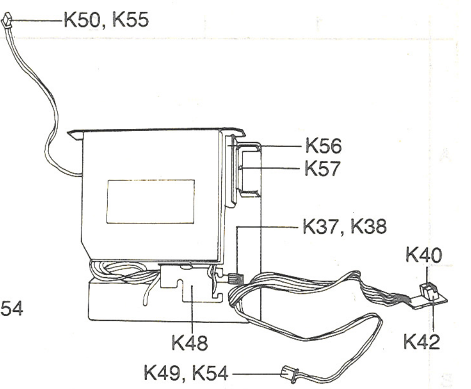
M29
M28
M26
M26-1
M45
M30
M47
M33
M44
M23-1
M49
M46
M51
M48
M52-1
M49-1
M50
M52
K7-2
K7
K74
K7-4
K7-7
K7-5
K7-1
K7-3
K7-6
K20
K66
K61
K6-1
K7-6
K7-1
K7-5
K19
K7-2
K7-7
K7-4
K75, 76, 77
K72
K20
K5
K58
K59
K6
K2-1
K65
K6-2
K6-1
K69
K2-2
K20
K8
K36
K71
K2-2
K17
K70
K8
K79
K16
K119
K1
K3
K2-2
K20
K4
K21
K2
K110
K33
K30
K32
K30
K29
K34
K35
K31
K96, K97
K93
K99
K94
K92
K105
K93
K98
K107
K91
K101
K95
K105
K93
K100
K104
K101
K100
K100
K104
K93
K104
K105
K100
K104
K102, K103
K78
K80, K54
K60
K62, K63
K68
K116
K67
K115
K117
K81
K18
K21
K11
K13, K14, K15
K25
K24
K26
K12
K82
K83
K82
K28
K21 K22, K23

ne & Description
Gear
ss'y
are)
ontrol
ontrol Lever
ette Holder
ct
Select
p Select Lever
d
Block M'tg
Block M'tg
oard M'tg
oard M'tg
M'tg
ch M'tg
M'tg


K51, K54
K47
K52, K55
K53, K55, K106
K108
K41
K40
K39
K45
K111
K27
K43 K44 K46 K44


K121 K89
K87
K122
K123, 124
K86
K85, K84, K54
K57
K90 K88


K50, K55
K56
K57
K37, K38
K40
K48
K42
K49, K54

M ...For U.S.A.

C ...For Canada.

Ref. No.	Part. No.	Part Name & Description
		CABINET PARTS
K1 M (For U.S.A.)	**RYM1XC300M**	Front Cabinet Ass'y, Deck
K1 C (For Canada)	**RYM1XC300MC**	Front Cabinet Ass'y, Deck
K2 M (For U.S.A.)	**RYF1XC300M**	Rear Cabinet, Deck
K2 C (For Canada)	**RYF1XC300MC**	Rear Cabinet, Deck
K2-1	**RJC5001Z**	Battery Spring (+/−)
K2-2	**RHK20Z**	Screw, Speaker Hanger
K3	**RYQXC300FX**	Cassette Holder Ass'y
K4	**RYPXC300FX**	Cassette Lid Ass'y
K5	**RYM2XC300M**	Front Cabinet, Tuner, Amp
K6	**RYF2XC300M**	Rear Cabinet Ass'y, Tuner, Amp
K6-1	**RHK20Z**	Screw, Speaker Hanger
K6-2	**RJT1013Z**	Terminal, Telescopic Ant.
K7	**RYHXC300M**	Handle Ass'y
K7-1	**XTC3+8CFN**	Screw, Handle M'tg
K7-2	**RHM191Z**	Shaft, Handle
K7-3	**RKX326Z**	Handle
K7-4	**RKX327Z**	Arm, Handle
K7-5	**RKX328Z**	Cover, Handle
K7-6	**RKE505Z**	Lock Angle
K7-7	**RUQ20Z**	Spring, Handle Release
K8	**RYYXC300FX**	Joint Ass'y
K11	**RSE116Z**	Counter
K12	**RUB364Z**	Bracket, Eject
K13	**RUB365Z**	Bracket, Eject Button
K14	**RBD319Z**	Knob, Eject
K15	**RUQ23Z**	Spring, Eject Button
K16	**RUW42Z**	Spring, Cassette Holder
K17	**RDG5728Z**	Gear, Cassette Holder
K18	**QDB0288**	Counter Belt (Square)
K19	**XTB3+10BFN**	Screw, Socket M'tg
K20	**XTB3+65G**	Screw, Cabinet M'tg
K21	**XTV3+10G**	Screw, Mechanism etc. M'tg
K22	**XTN3+12B**	Screw, Eject Bracket M'tg
K23	**XWG3**	Washer, Eject Bracket M'tg
K24	**RBC702Y**	Button, Dolby
K25	**RBC702Z**	Button, Reverse Mode
K26	**RBC703Z**	Button, Brank Skip
K27	**RBC709Z**	Button, Power
K28	**RBD279Y**	Knob, Timer Standby, Tape Selector
K29	**RBD320Z**	Knob, Mixing Level
K30	**RDS5123Z**	Spring, Button
K31	**RBC704Z**	Button, FF/REW
K32	**RBC705Z**	Button, Play
K33	**RBC706Z**	Button, Stop
K34	**RBC707Z**	Button, Rec Mute
K35	**RBC708Z**	Button, Rec Standby
K36	**RKK226Z**	Battery Cover
K37	**XBA1C50NU100**	Fuse ⚠
K38	**QTF1054**	Fuse Holder
K39	**RJP2G10Z**	Plug (2P) CP17
K40	**RJP2G4Y**	Plug (2P) CP13, 15
K41	**RJP3G10Z**	Plug (3P) CP12
K42	**RJP3G4Y**	Plug (3P) CP16
K43	**RJP5G10Z**	Plug (5P) CP11
K44	**RJP5G11Z**	Plug (5P) CP6, 8
K45	**RJP7G10Z**	Plug (7P) CP18
K46	**RJP7G11Z**	Plug (7P) CP7
K47	**RJS13L12Z**	Socket (13P) CP5
K48	**RMK157Z**	Bracket, Socket
K49	**RJS2L3Z**	Socket (2P) CS13
K50	**RJS2L4Z**	Socket (2P) CS17
K51	**RJS3L3Z**	Socket (3P) CS16
K52	**RJS7L4Z**	Socket (7P) CS7, 9, 11
K53	**RJS9L4Z**	Socket (9P) CS10
K54	**RJT707Z**	Terminal, Socket
K55	**RJT807Z**	Terminal, Socket
K56	**RMY202Z**	Heat Sink, Q320
K57	**XTV3+6BFN**	Screw, Heat Sink etc. M'tg
K58	**RUS548Z**	Spring, Tuning Knob
K59	**RDG5777Z**	Gear, Tuning Knob
K60	**RDG5778Z**	Gear, Dial
K61	**RDE146Z**	Rack, Dial
K62	**XSN26+6**	Screw, Dial Gear
K63	**XWA26B**	Washer, Dial Gear
K65	**RHR1265Z**	Bracket, Volume
K66	**RDP285Z**	Pointer, Dial
K67	**RBC703Z**	Button, Spectrum Analyzer
K68	**RBC710Z**	Button, Function
K69	**RBD321Z**	Button, Volume
K70	**RBD322Z**	Button, Balance
K71	**RBD323Z**	Button, Graphic EQ.
K72	**RBT182X**	Knob, Tuning
K74	**XEARR175FAK**	Telescopic Ant.
K75	**XSN3+8BNS**	Screw, Telescopic Ant M'tg
K76	**XWA3BFN**	Washer, Telescopic Ant M'tg
K77	**XWG3FN**	Washer, Telescopic Ant M'tg
K78	**RJF1095Z**	Terminal, Ext Ant, Earth
K79	**RJC511Z**	Battery Spring
K80	**RJS7L3Z**	Socket (7P) CS1
K81	**RJP9G3Z**	Plug (9P), CS3
K82	**RJS5M3Z**	Socket (5P), CP6, 8
K83	**RJS7M3Z**	Socket (7P), CP7
K84	**RJS4L3Z**	Socket (4P) CS2
K85	**RJP4G4Y**	Plug (4P), CP2
K86	**RJP7G4Y**	Plug (7P), CP1
K87	**RJS13L12Z**	Socket (13P) CP4
K88	**RJS9M1Z**	Socket (9P), CP3
K89	**QJT1104**	Terminal, Speaker
K90	**XTV3+12BFN**	Screw, Heat Sink M'tg
K91	**EAS16PL262S**	Speaker, Woofer
K92	**EAS65PH29G**	Speaker, Squawker
K93	**XMMR31+13FN**	Screw, Speaker M'tg
K94	**RWEXC300FX**	Tweeter Ass'y
K95	**RHS722Z**	Cover
K96	**RKF9029Y**	Speaker Box (L) Ass'y
K97	**RKF9029Z**	Speaker Box (R) Ass'y
K98	**SJFS5204**	Terminal, Speaker
K99	**SKW161-2**	Bracket, Speaker Box
K100	**RHG317A**	Rubber Cushion
K101	**RGE83Z**	Stopper, Speaker Box
K102	**RYM3XC300FX**	Speaker Grille (R) Ass'y
K103	**RYM4XC300FX**	Speaker Grille (L) Ass'y
K104	**XMM31+13FZ**	Screw, Rubber Cushion M'tg
K105	**XMS31+13FZ**	Screw, Stopper
K106	**RJP9G10Z**	Plug (9P) CP91
K107	**XMM35+13FX**	Screw, Squawker M'tg
K108	**RMC1024Z**	Shield Cover, Mechanism
K110	**RUV736Z**	Cover, Battery
K111	**XTN2+3B**	Screw, Shield Cover M'tg
K115	**RMC1000Z**	Shield Cover, FL Circuit
K116	**RMC1001Z**	Shield Cover, FL Circuit
K117	**RHG2075Z**	Rubber, FL Tube
K119	**RUP1908Y**	Printed Circuit Board
K121	**RMY198Z**	Heat Sink, IC208, IC209
K122	**RMY199Z**	Heat Sink, IC208, IC209
K123	**XTV3+8BFN**	Screw, Heat Sink M'tg
K124	**RMY191Z**	Heat Sink, for Q610

PACKINGS

REPLACEMENT PARTS LIST

Important safety notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Part. No.	Part Name & Description
		ACCESSORIES
A1 M (For U.S.A.)	**RQX4615Z**	Instruction Book
A1 C (For Canada.)	**RQX4616Z**	Instruction Book
A2	**RJP0G1Z**	Joint Cord
A4	**RJE123Y**	Speaker Cord
A5 M (For U.S.A.)	**RJA22X**	Power Cord, AC ⚠
A5 C (For Canada.)	**RJA95Z**	Power Cord, AC ⚠
		PACKINGS
P1	**RPN9499Z**	Pad Complete
P2 M (For U.S.A.)	**RPK2038Z**	Gift Box
P2 C (For Canada.)	**RPK2039Z**	Gift Box
P2-1	**RPE569Z**	Handle, Gift Box
P3	**XZB45X45A01**	Polyethylene Cover
P4	**XZB40X60A01**	Polyethylene Bag
P5	**RQE13Z**	Label
P5	**RPH474Z**	Soft Cover
	RPP682Z	Polyethylene Cover

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ORDER NO. GAD8508017A2

Service Manual

Radio Cassette

RX-C300

(Black)

Portable Stereo Component System

This is the Service Manual
for the following area.

MZ ...For Audio Club.

- Please use this manual together with the service manual for model No. RX-C300 M order No. GAD85032238C1
- This Service Manual indicates the main differences between;Original RX-C300 M and RX-C300 MZ For Audio Club.

■ PARTS COMPARISON TABLE

Notes: 1. Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. Please revise the original parts list in the Service Manual to conform to the changes shown herein. If new part numbers are shown, be sure to use them when ordering parts.

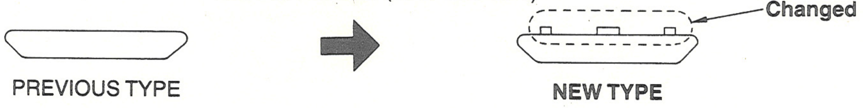
Ref. No.	Description	Part Number		Remarks
		RX-C300 M (Original)	**RX-C300 MZ (NEW)**	
P6	AC Plug Adaptor ⚠	——	**RJP120ZS**	Added
K47, 87	Socket (13P) CP5, 4	RJS13L12Z	**RJS13L12Y**	
A2	Joint Cable (Connector)	RJP0G1Z	**RJP0G1Y**	

CHANGED

●Note:

The joint cable currently used in RX-C300 to connect the Tuner Amplifier and Cassette Deck sections.
We have modified the joint cable connector and socket shapes for improvement of product performance.
Modified joint cable and socket pairs are available as replacement service parts. When replacing the old jack in both the Tuner Amplifier and Cassette Deck sections with a new one, be sure to replace the new joint cable, too.

K47, 87: socket (CP5 and CP4)

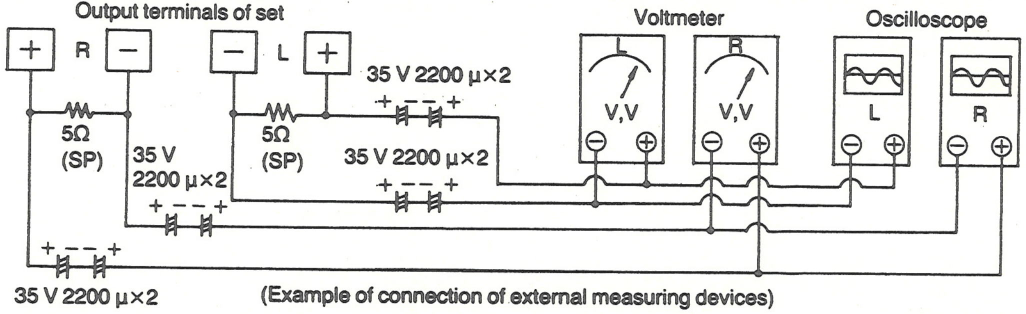


■ CAUTION

Observe the following precautions when connecting a measuring device other than the accompanying speaker to an external speaker jack or a P.C. Board.

Note:

When connecting an external measuring device to an output line, connect an electrolytic capacitor between them to cut the direct current. Also, the positive (+) and negative (−) terminals of the left and right channels must be connected independently with respect to direct current and alternating current. Be particularly careful that measuring devices connected to different channels and placed in close proximity to each other do not contact each other.



(Example of connection of external measuring devices)

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